HCD-R500/RX55

SERVICE MANUAL

AEP Model
UK Model

HCD-R500/RX55 is the tuner, deck, CD and amplifier section in MHC-R500/RX55.

Photo : HCD-RX55

CD SECTION	Model Name Using Similar Mechanism	HCD-G101
	CD Mechanism Type	CX3
	Base Unit Type	KSM-213BCM
	Optical Pick-up Type	KSS-213B/S-N
TAPE DECK SECTION	Model Name Using Similar Mechanism	NEW
	Tape Transpor Mechanism Type	CWB44RR10

SPECIFICATIONS

Amplifier section

North American model

Continuous RMS power output
50 W + 50 W (6 Ω at 1 kHz, 10% THD)

Other models

The following measured at AC 110, 220 V 60 Hz;
DIN power output (Rated) 35 W + 35 W (6 Ω at 1 kHz, DIN)
Continuous RMS power output (Reference)
45 W + 45W (6 Ω at 1 kHz, 10% THD)

The following measured at AC 120, 240 V 60 Hz;
DIN power output (Rated) 40 W + 40 W (6 Ω at 1 kHz, DIN)
Continuous RMS power output (Reference)
50 W + 50W (6 Ω at 1 kHz, 10% THD)
Peak music power output (Reference)
600 W

Inputs
MD IN (phone jacks) : voltage 450 mV, impedance 47 kΩ
Outputs
MD OUT (phone jacks) : voltage 250 mV, impedance 1 kΩ
PHONES (stereo phone jack) :
accepts headphones of 8 Ω or more
SPEAKER : accepts impedance of 6 to 16 Ω

CD player section

System: Compact disc and digital audio system
Laser: Semiconductor laser (λ = 780 nm)
Emission duration: continuous
Laser output: Max. 44.6 µW*
*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Frequency response: 20 Hz – 20 kHz (± 0.5 dB)
Wavelength: 780 – 790 nm
DIGITAL OUT (OPTICAL)
(Square optical connector jack, rear panel)
Wavelength: 600 nm
Output Level: –18 dBm

Tape deck section

Recording system: 4 -track 2 -channel stereo
Frequency response: 40 – 13,000 Hz (± 3dB), using Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

— Continued on next page —

MINI Hi-Fi COMPONENT SYSTEM

MICROFILM

SONY®

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 Ω unbalanced
Intermediate frequency	10.7MHz

AM tuner section

Tuning range

European model:

MW: 531-1,602 kHz (with MW tuning interval set at 9 kHz)

LW: 153-279 kHz (with LW tuning interval set at 3 kHz)

Other models:

AM: 531-1,602 kHz (with AM tuning interval set at 9 kHz)
530-1,710 kHz (with AM tuning interval set at 10 kHz)

Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements

North American model: 120 V AC, 60 Hz

Mexican model: 120 V AC, 50/60 Hz

Australian and South African models: 220 – 240 V AC, 50/60 Hz

Other models: 110 – 120 V or 220 – 240 V AC, 50/60 Hz (adjustable with voltage selector)

Power consumption	100 W
Dimensions (w/h/d) incl. projecting parts and controls	Approx. 280 × 320 × 400 mm ($11\ ^1/_8 \times 12\ ^5/_8 \times 15\ ^3/_4$ in)
Mass	Approx. 9.5 kg (20 lb 15 oz.)
Supplied accessories:	AM loop antenna (1) Remote (1) RM-SG7 (for HCD-RX55) RM-SG7B (for HCD-R500) FM lead antenna (1)

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

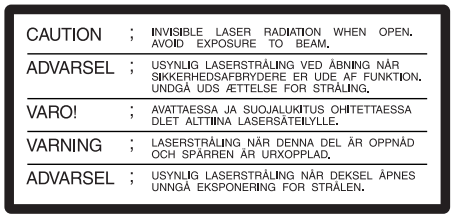
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.


CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

This caution label is located inside the unit.

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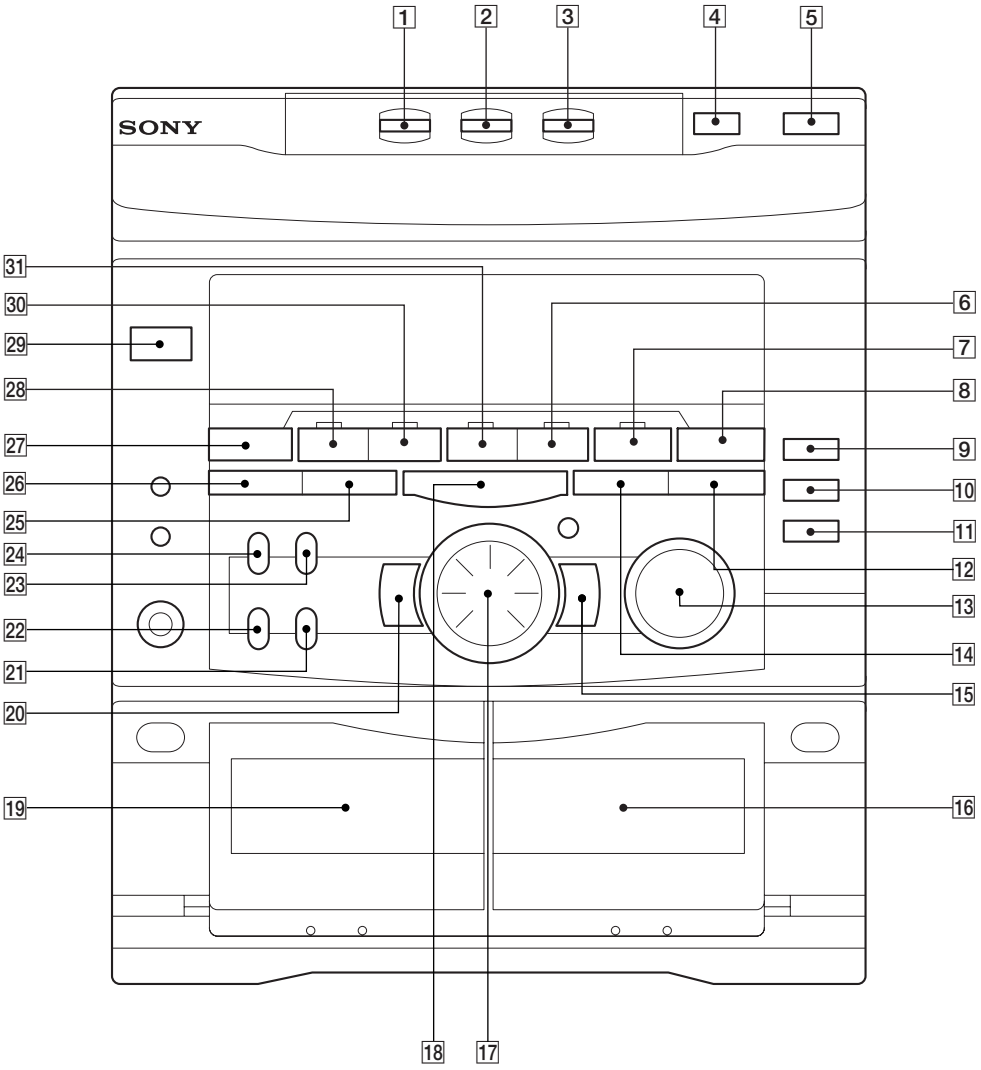
SECTION 1
GENERAL

LOCATION OF PARTS AND CONTROLS

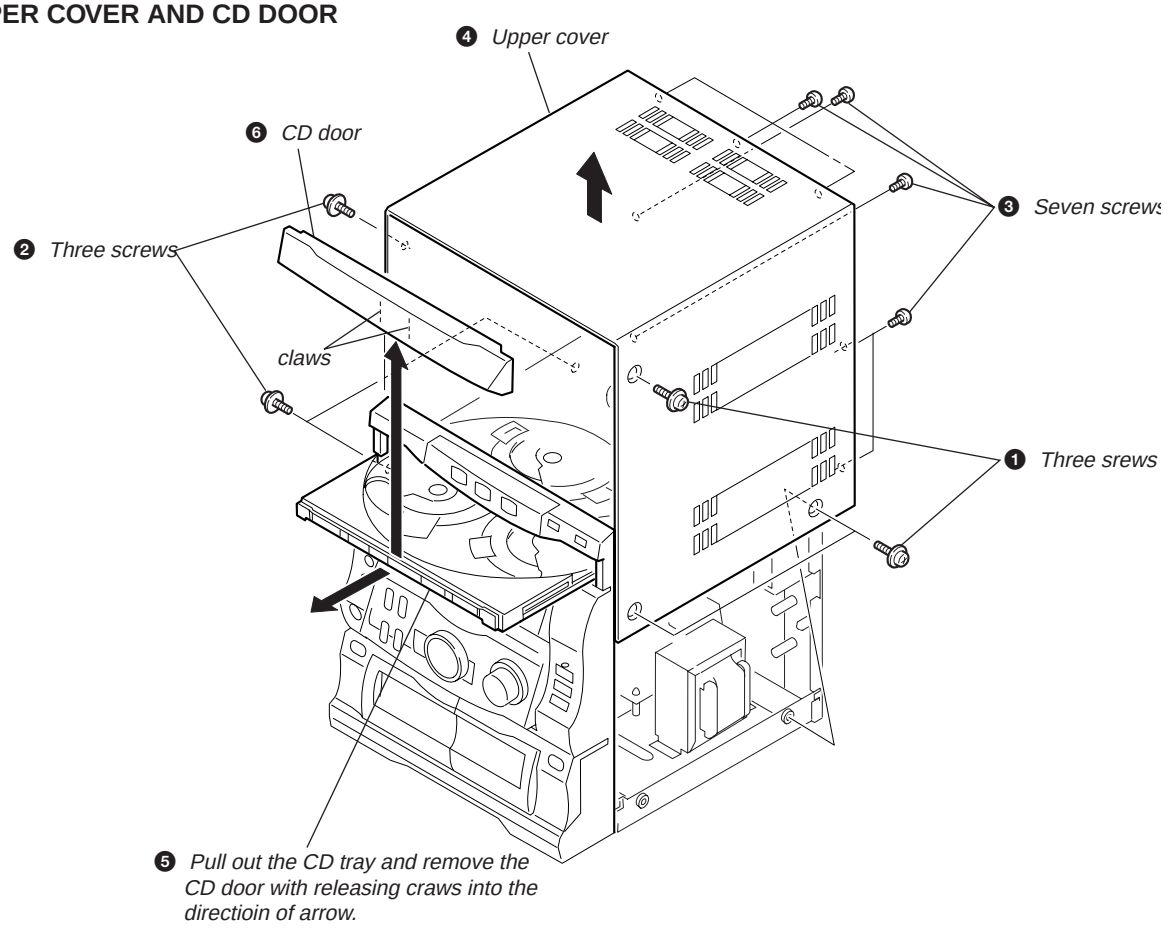


1 DISC 1 button
2 DISC 2 button
3 DISC 3 button
4 DISC SKIP button
5 ⏏ OPEN/CLOSE button
6 ▷ (TAPE B)
7 ▷ ⏯ (CD) button
8 TUNER/BAND button
9 ● REC button
10 ⏯ PAUSE button
11 CD SYNC button
12 STEREO/MONO button
13 VOLUME
14 REPEAT/MEMORY button
15 ▷▷ + button
16 DECK B
17 JOG DIAL
18 □ (STOP) button
19 DECK A
20 ◁◁ – button
21 DBFB button
22 SURROUND button
23 FILE SELECT button
24 DISPLAY/DEMO button
25 EDIT/DIRECTION button
26 PLAY MODE button
27 FUNCTION
28 ◁ (TAPE A) button
29 I/⏻ (POWER) button
30 ▷ (TAPE A) button
31 ◁ (TAPE B) button

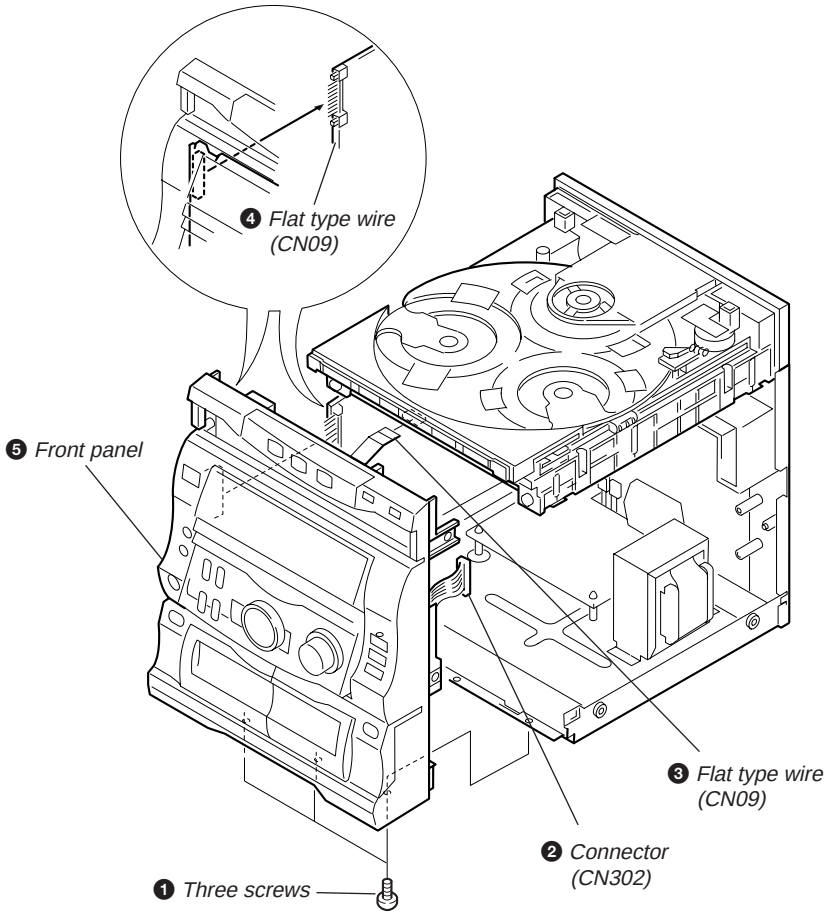
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

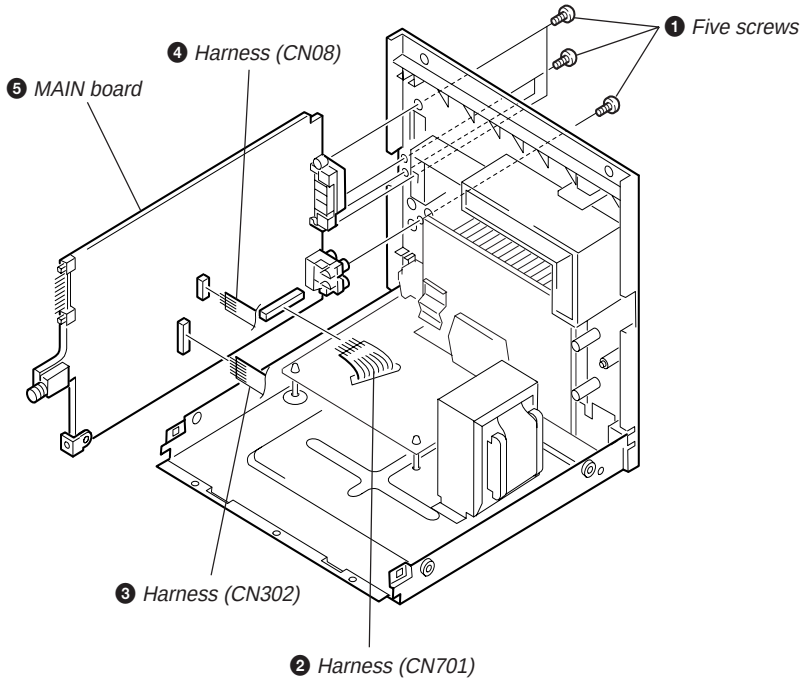
2-1. UPPER COVER AND CD DOOR


❹ Upper cover
❻ CD door
❸ Seven screws
❷ Three screws
claws
❶ Three srews
❺ Pull out the CD tray and remove the CD door with releasing craws into the directioin of arrow.

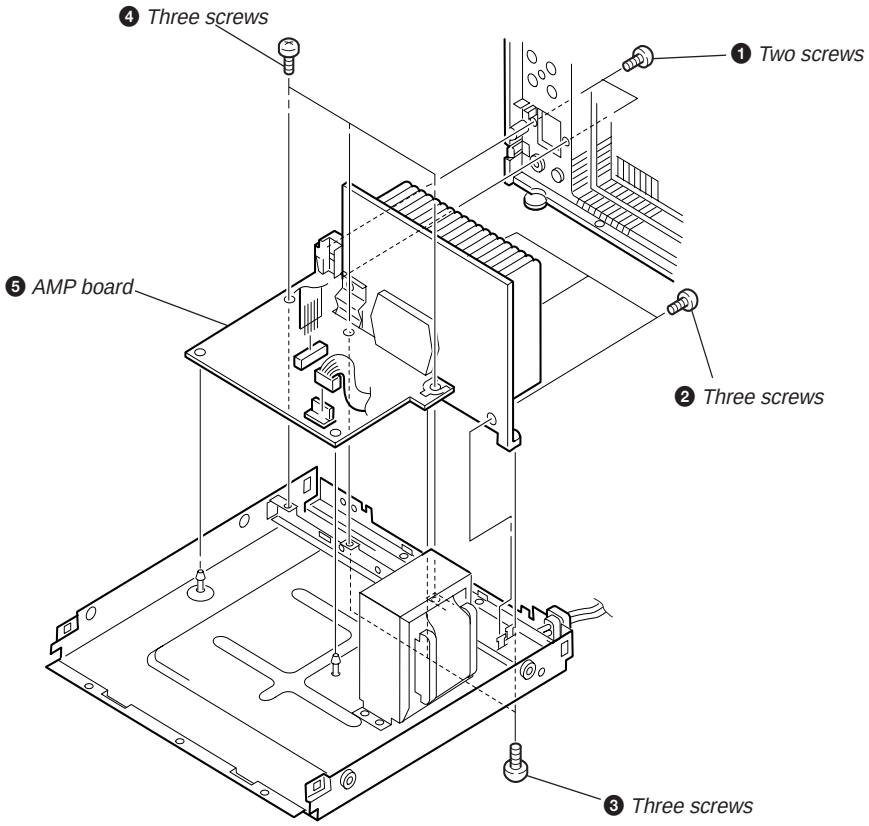
2-2. FRONT PANEL



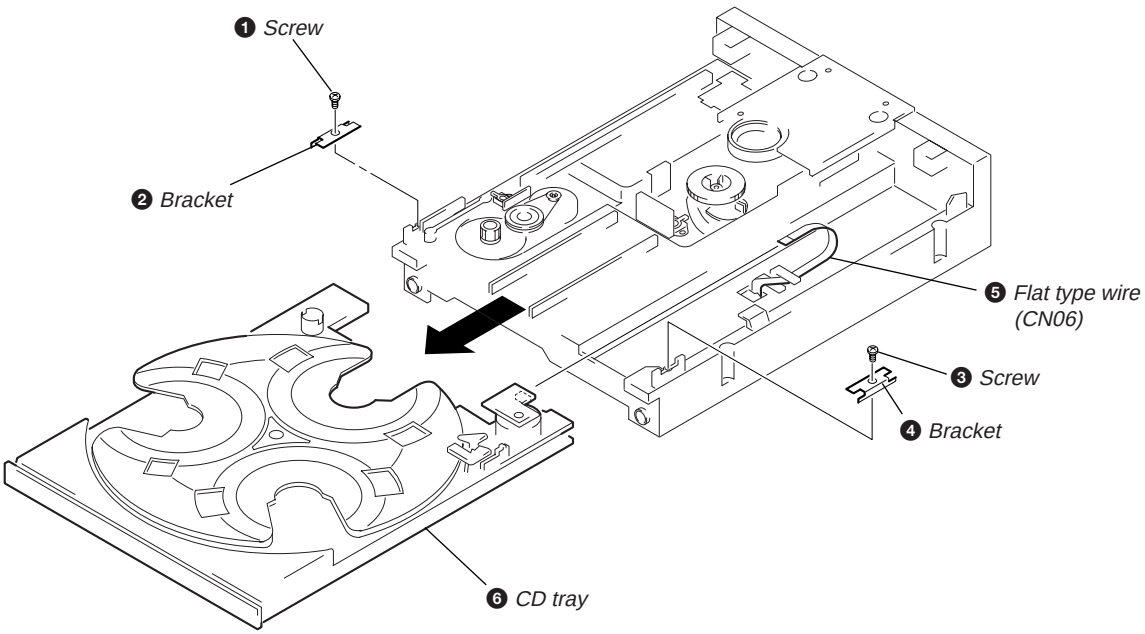
2-3. MAIN BOARD



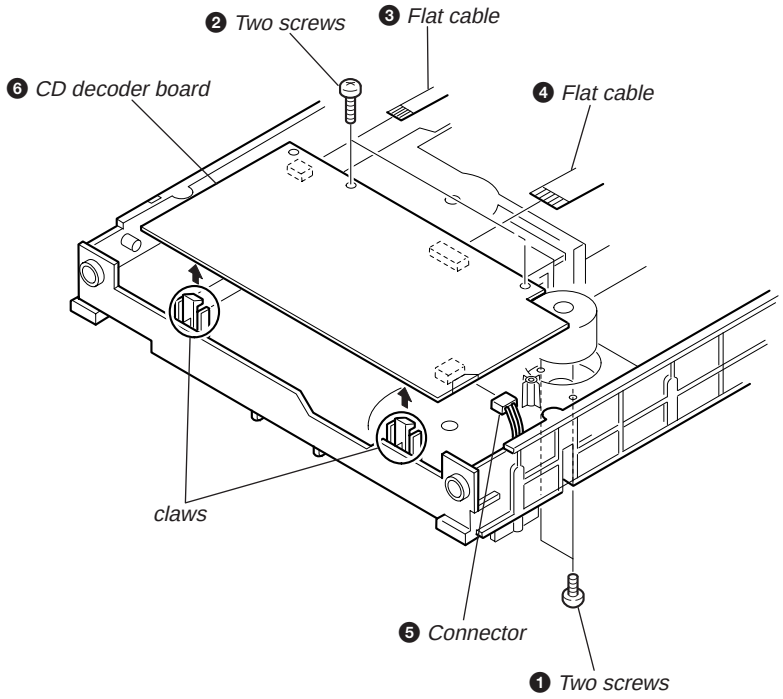
2-4. AMP BOARD



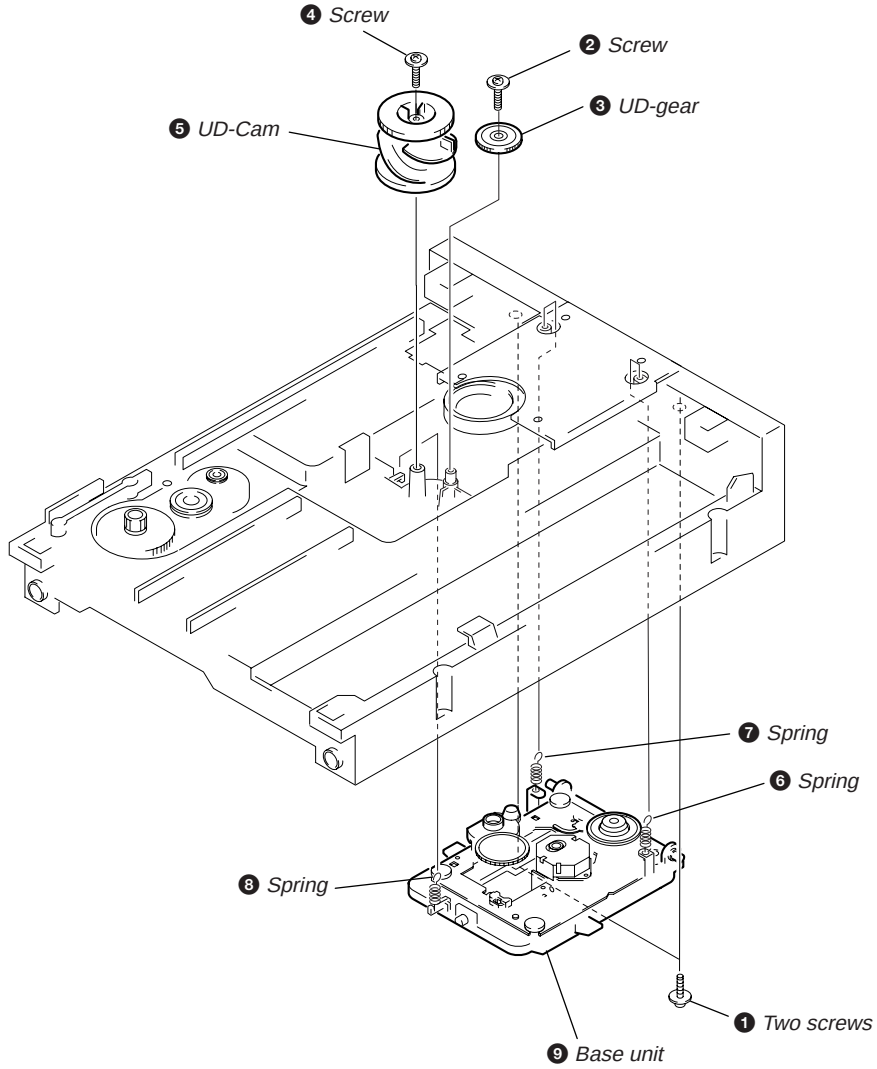
2-5. CD TRAY



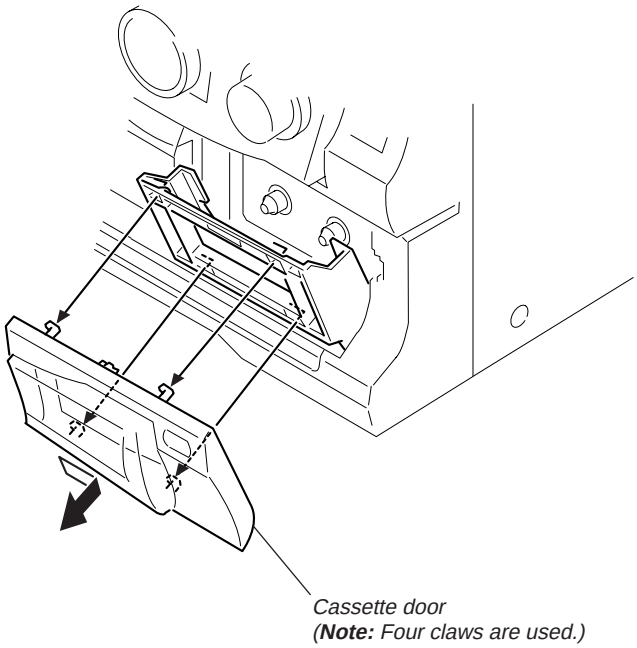
2-6. CD DECODER BOARD



2-7. BASE UNIT



2-8. CASSETTE DOOR



SECTION 3
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback head — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	40 to 70 g • cm (0.56 - 0.97 oz • inch)
FWD back tension	CQ-102C	1 to 5 g • cm (0.01 - 0.07 oz • inch)
FF/REW	CQ-201B	55 to 140 g • cm (0.76 - 1.94 oz • inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

1. Demagnetize the record/playback head with a head damagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

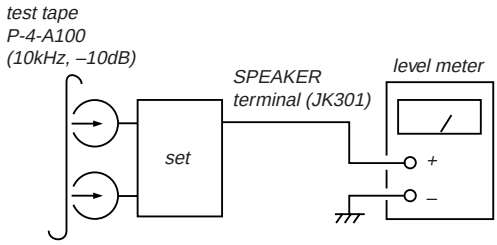
Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

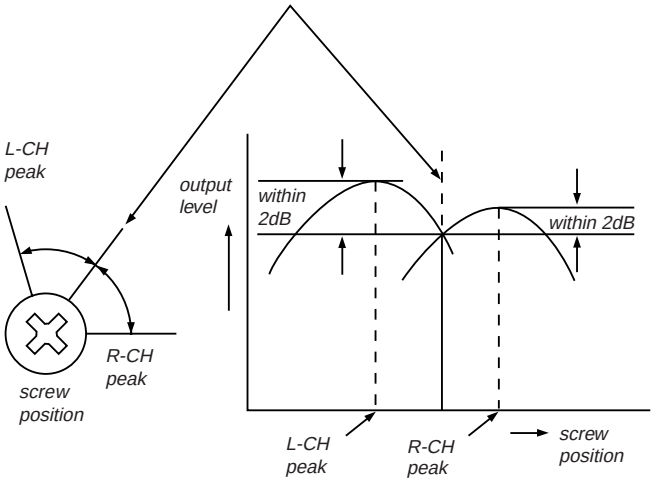
Note: Perform this adjustments for both decks.

Procedure:

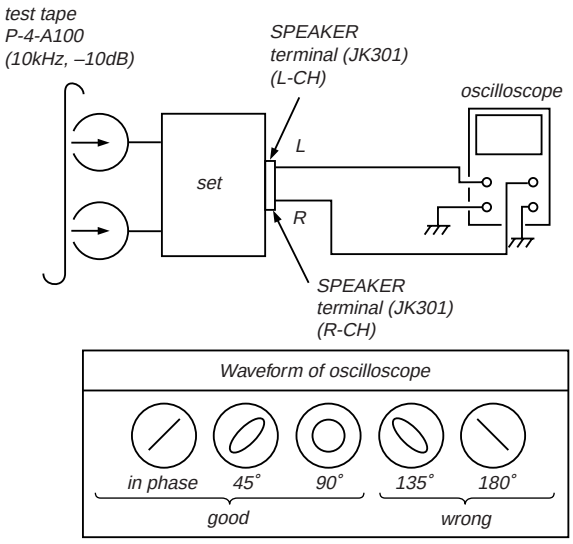
1. Mode : Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 2 dB of peak.

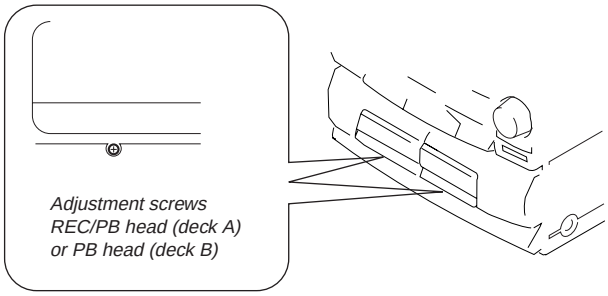


3. Mode: Playback



4. After the adjustments, apply suitable locking compound to the parts adjusted.

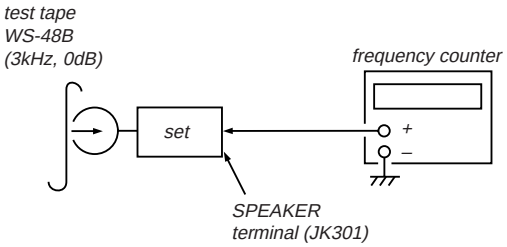
Adjustment Location:



Tape Speed Adjustment (Deck A)

Procedure:

1. Mode: Playback



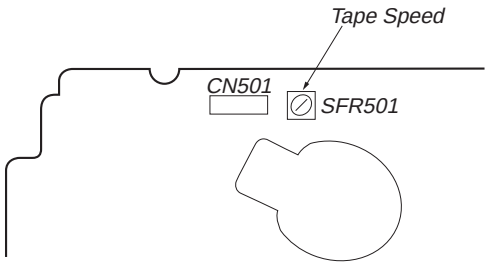
2. Adjust the SFR501 so that the frequency counter reads 3,000 Hz ± 90Hz.

Adjustment Location: DECK board

Sample Value of Wow and flutter

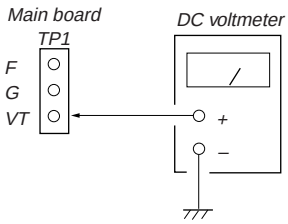
W. RMS (JIS) within 0.3%
(test tape: WS-48B)

[DECK BOARD] — Component side —



TUNER SECTION **0 dB=1μV**

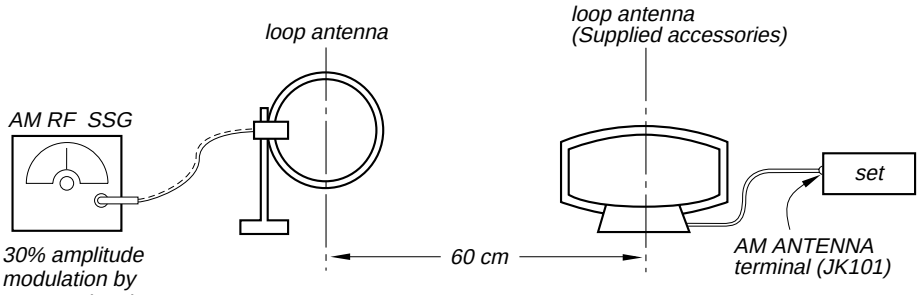
MW Tuning Voltage Adjustment



Procedure:
1. Set the reception frequency of the unit to 531 kHz.
2. Adjust L105 for 1.2 ± 0.05 V reading on the DC voltmeter.
3. Set the reception frequency of the unit to 1,602 kHz.
4. Confirm that the voltage reading on the DC voltmeter is within 8.0 ± 0.5 V.

Adjustment Location: MAIN board (See page 12)

AM Tracking Adjustment



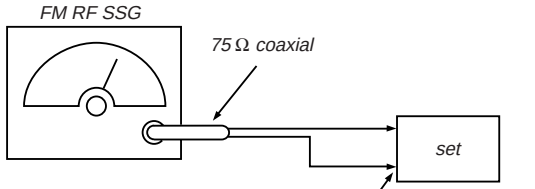
Field strength dB (μV/m) =SSG output level dB (μV/m) –26 dB.

Procedure:
1. Tune the set to 600 kHz.
2. Set the output of AM RF SSG so that the input level of the set will become 60 dB (μV/m).
3. Adjust L104 so that when the waveform on the oscilloscope is maximum, no noise appears.
4. Tune the set to 1,400 kHz.
5. Adjust CT102 so that when the waveform on the oscilloscope is maximum, no noise appears.

• Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location: MAIN board (See page 12)

FM Tuned Level Adjustment



Carrier frequency : 98 MHz
Modulation : AUDIO 1 kHz, 75 kHz deviation (100%)
Output level : 28 dB (at 75 Ω open)

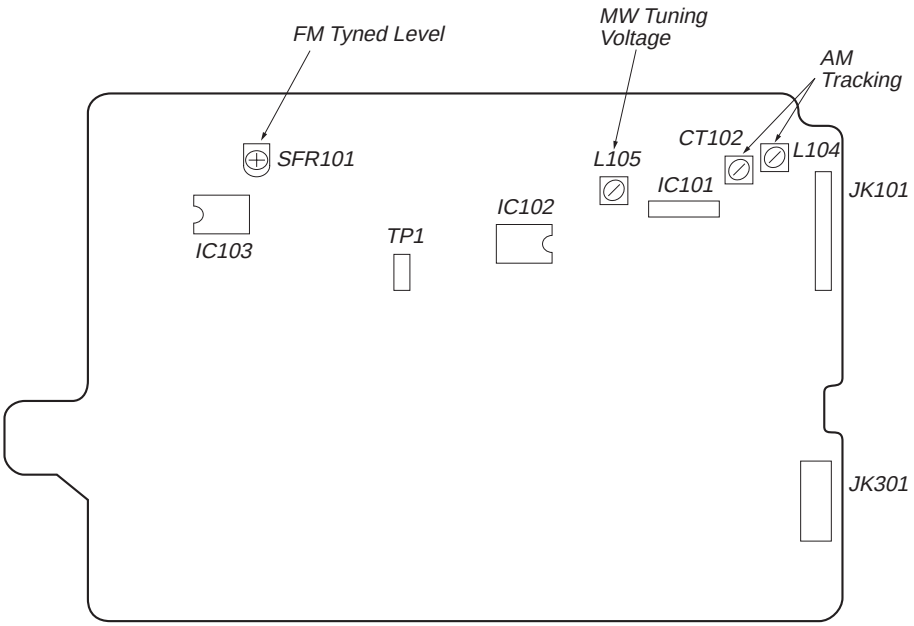
Procedure:

1. Supply a 28 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust SFR101 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] — Component side —

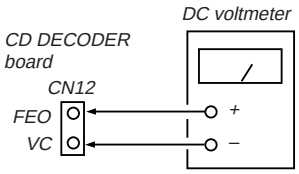


CD SECTION

Note:

1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

Focus Bias Adjustment



Procedure:

1. Connect DC voltmeter to test point CN12 (FEO), (VC) on CD DECODER board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and stop.
4. Adjust VR01 so that the DC voltmeter reading is 0 ± 20 mV.

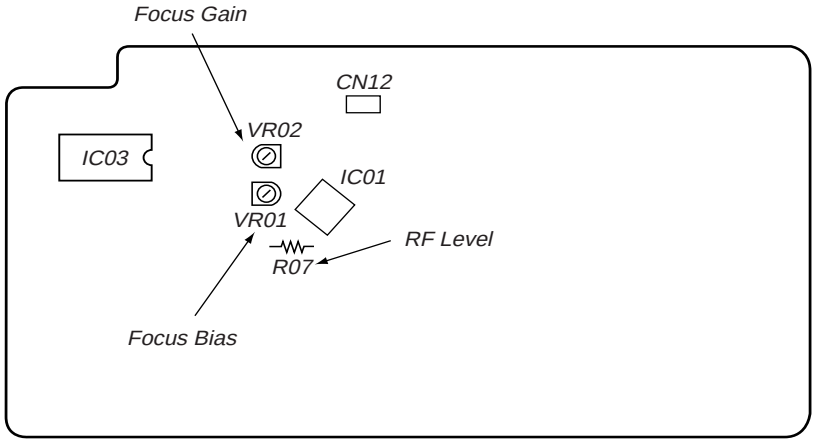
Adjustment Location: CD DECODER board

Focus Gain Adjustment (VR02)

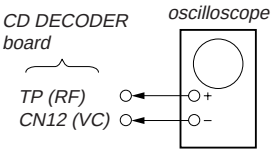
This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location

[CD DECODER BOARD] — Component side —



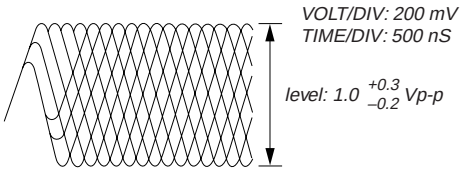
RF Level Check



Procedure :

1. Connect oscilloscope to test point TP (RF) on CD DECODER board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

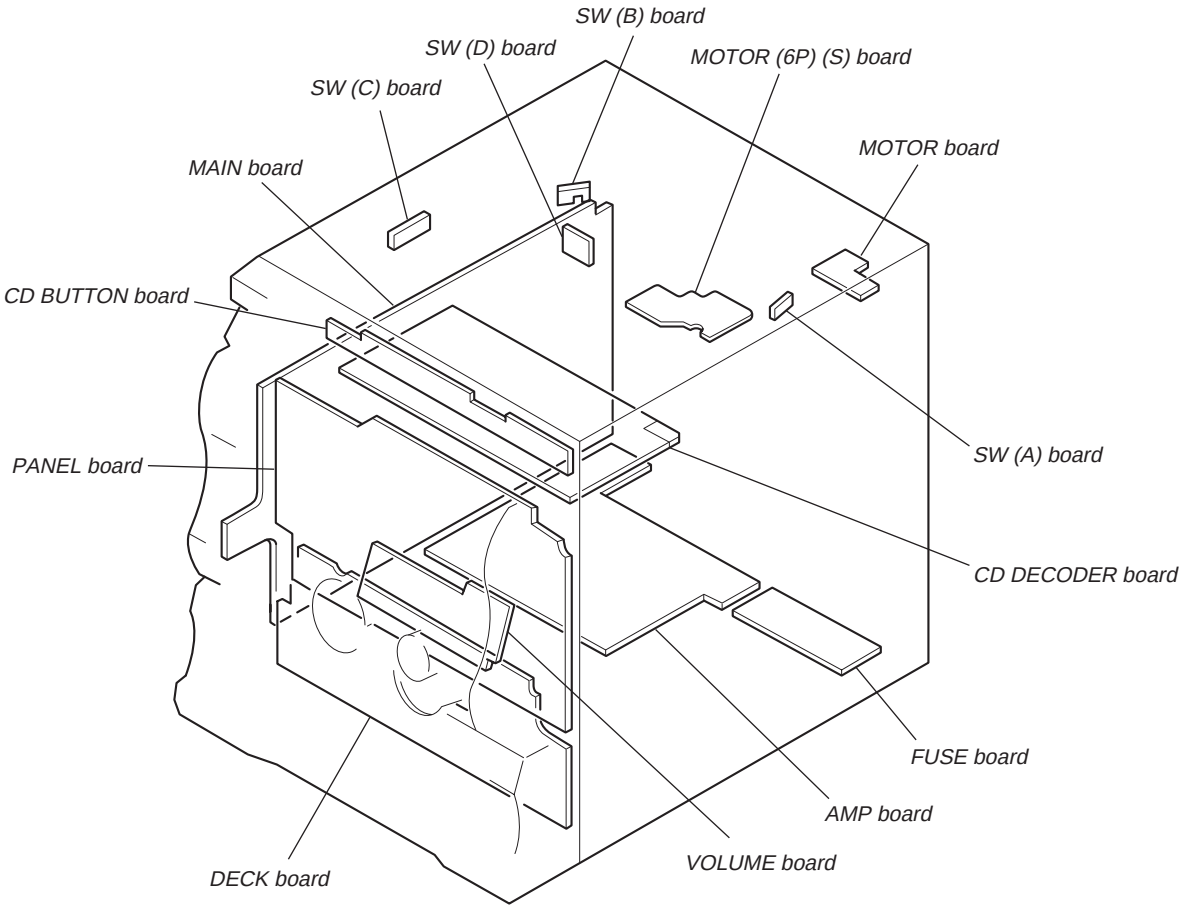
Note: Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.



Adjustment Location: CD DECODER board

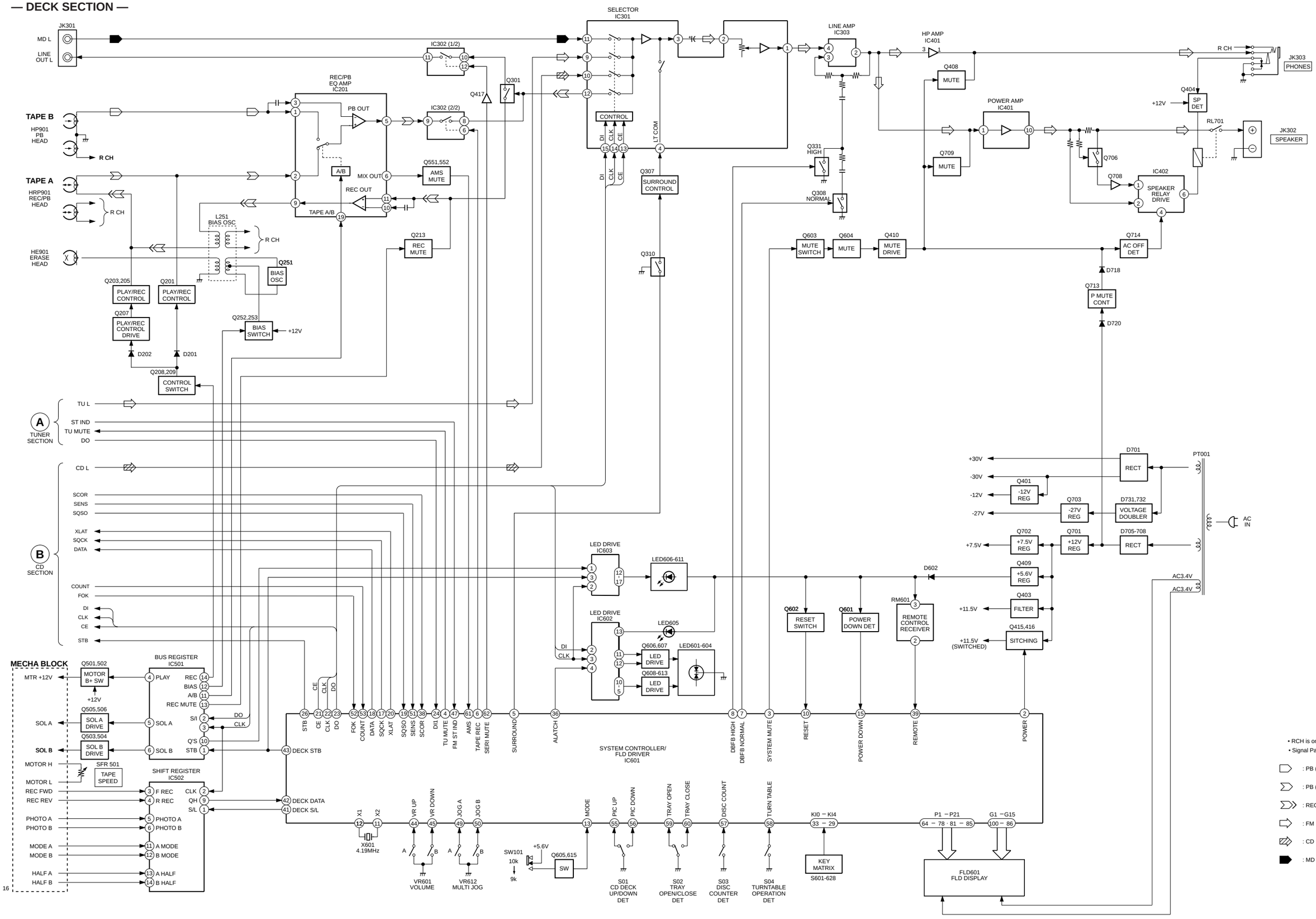
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

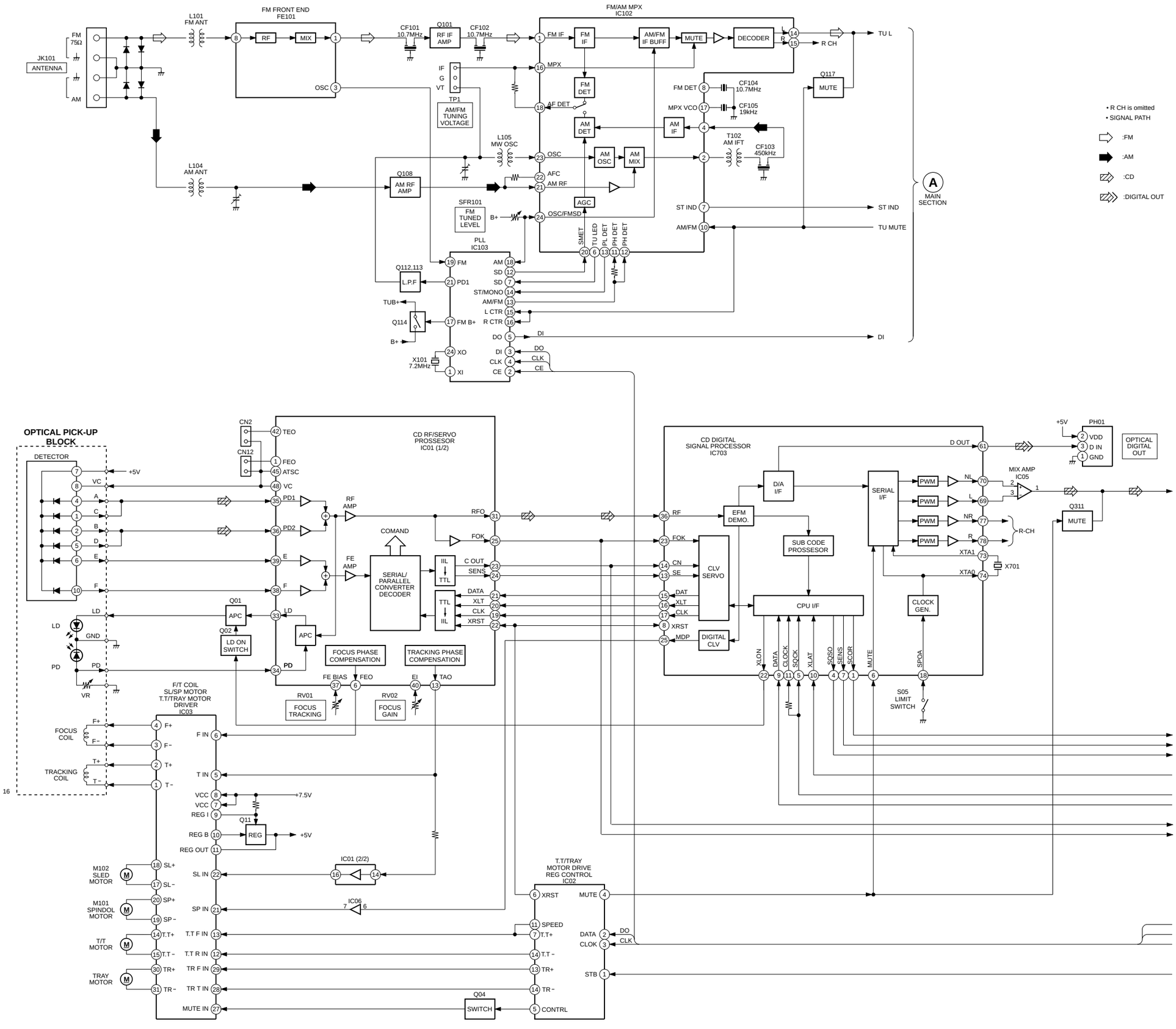


5-2. BLOCK DIAGRAMS

— DECK SECTION —

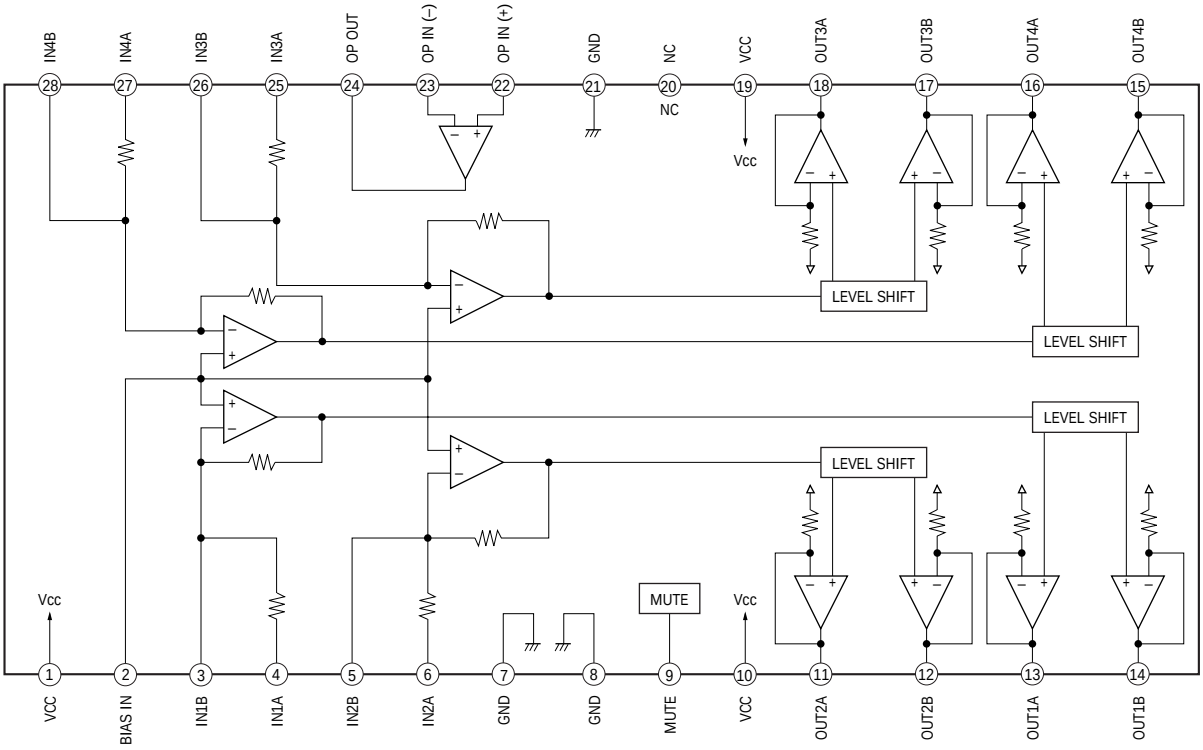


— TUNER/CD SECTION —

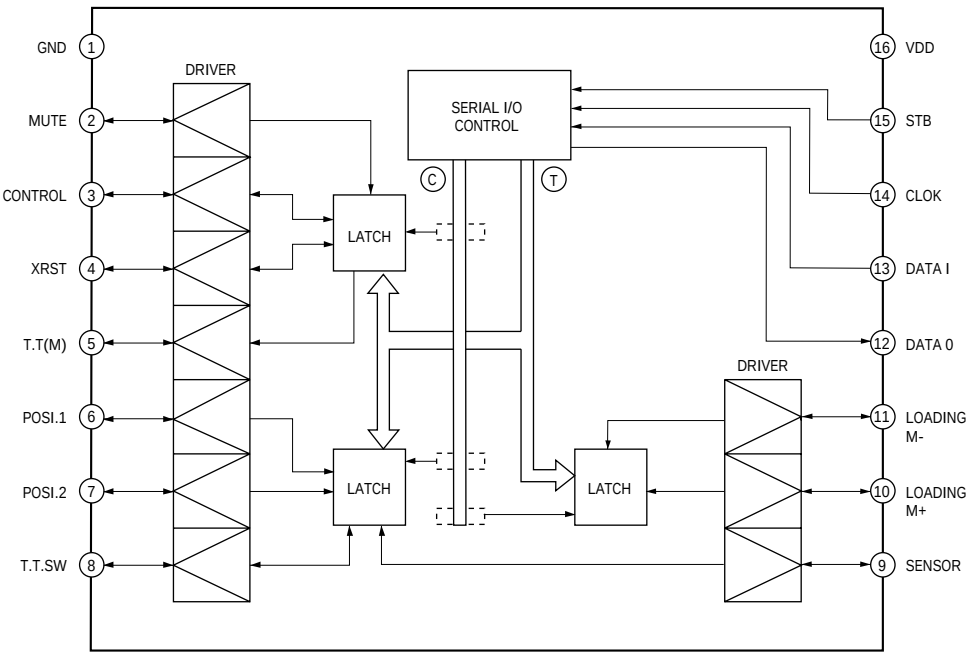


5-3. IC BLOCK DIAGRAMS

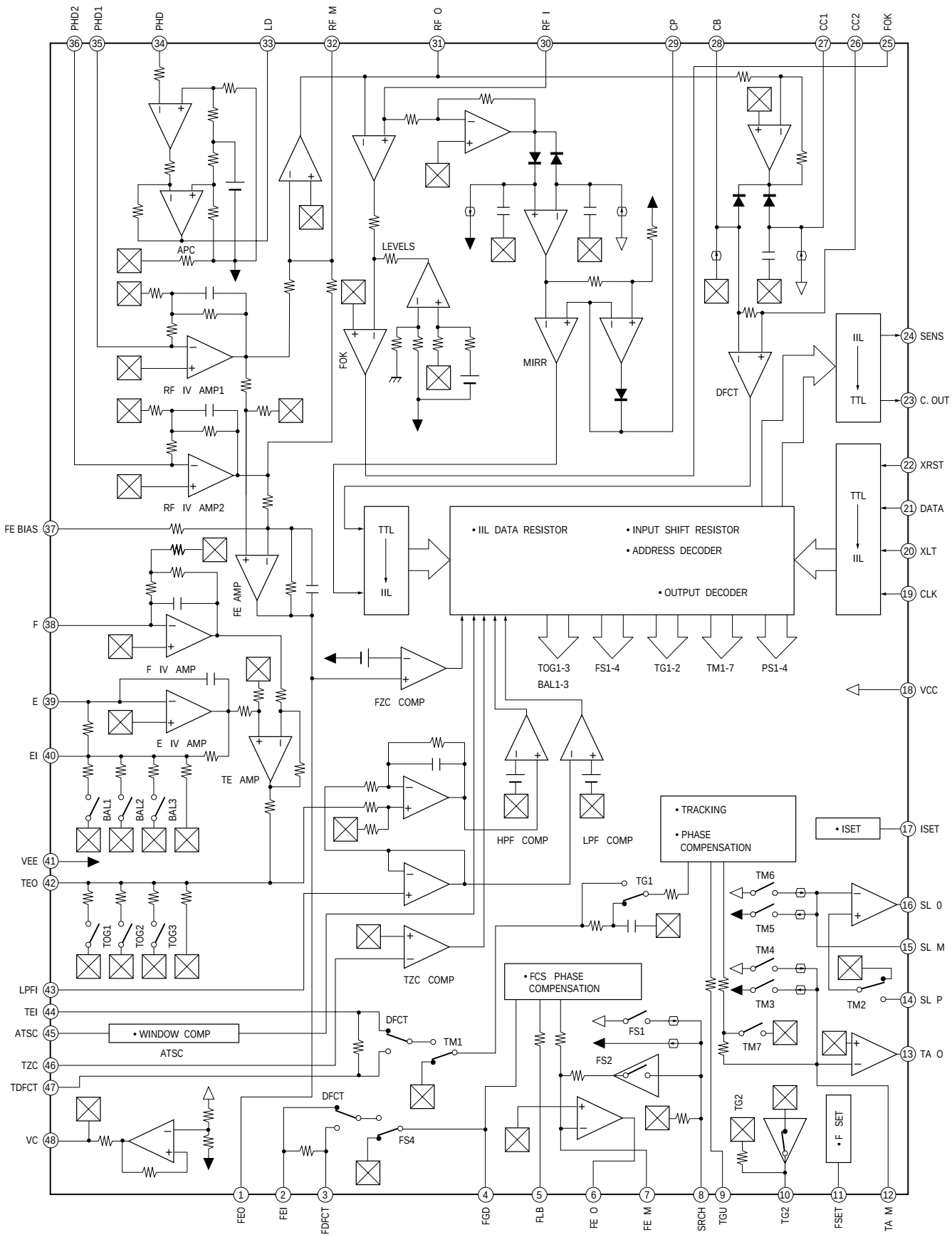
IC03 (CD DECORD BOARD) BA5941FP



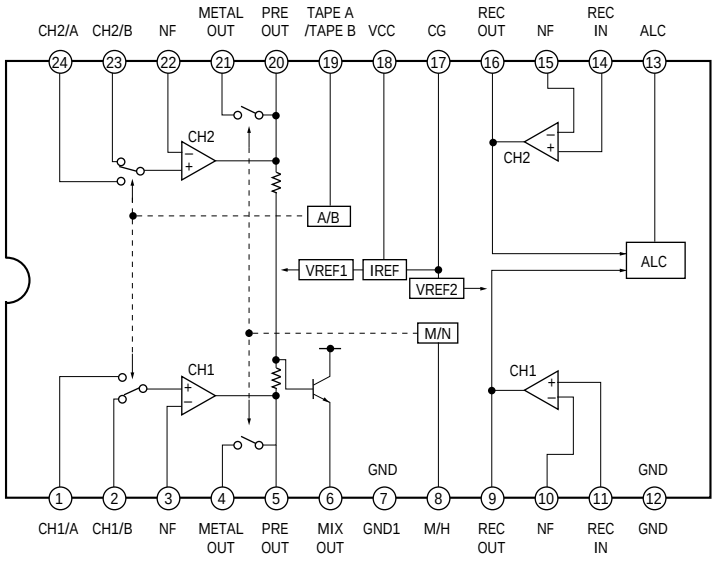
IC02 (CD DECORD BOARD) TC9173P



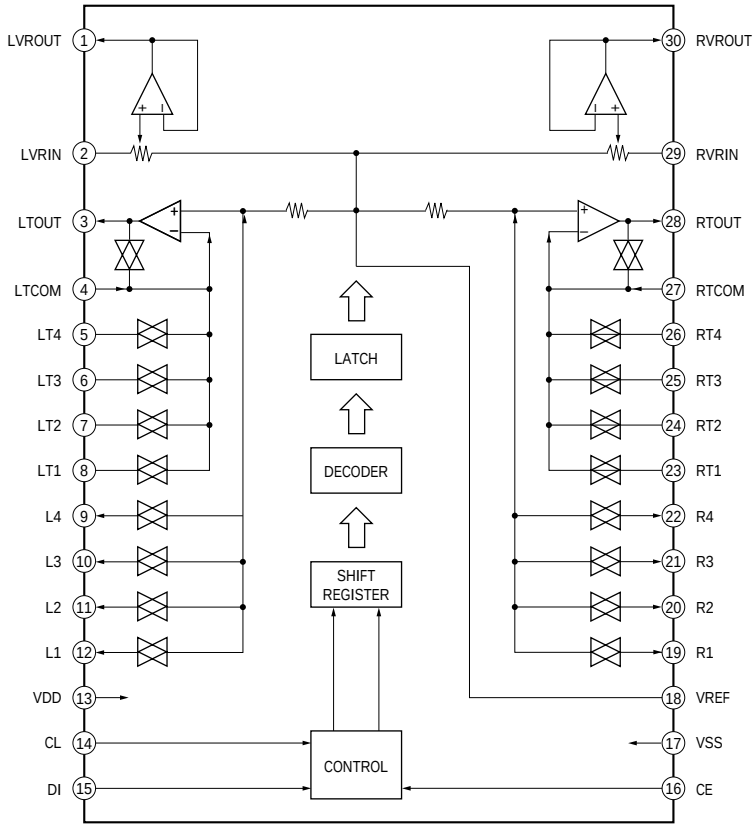
IC01 (CD DECORD BOARD) CXA1782BQ



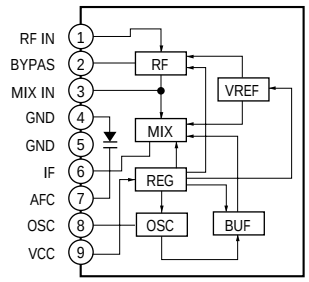
IC201 (MAIN BOARD) TA8189N



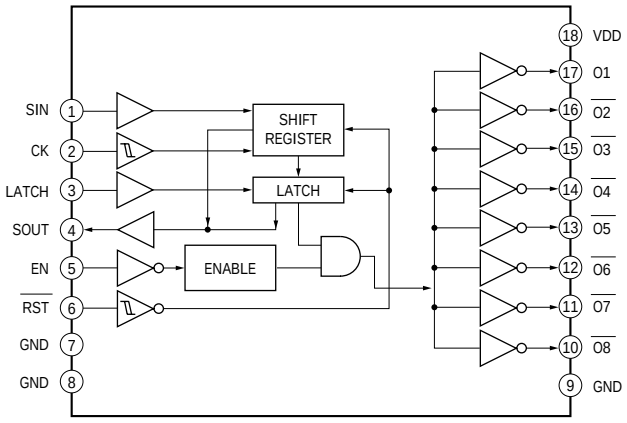
IC301 (MAIN BOARD) LC75392



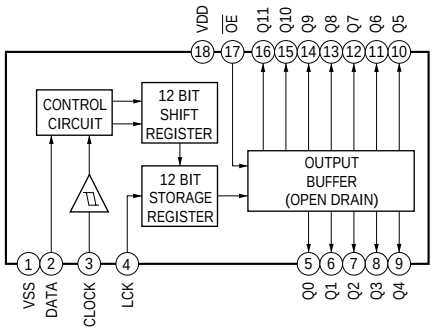
IC101 (MAIN BOARD) LA1186



IC603 (PANEL BOARD) BU2114



IC602 (PANEL BOARD) BU2092



5-13. IC PIN FUNCTION

IC601 µPD780205FG (SYSTEM CONTROL) / PANEL BOARD

Pin No.	Pin Name	I/O	Description
1	VDD	—	VDD
2	POWER OUT	O	Power switch output. ON: H, OFF: L
3	S. MUTE OUT	O	System mute output. ON: H, OFF: L
4	TU. MUTE OUT	O	Tuner mute output. ON: H, OFF: L
5	TUNED OUT	O	Surround output. ON: H, OFF: L (Not used)
6	TAPE REC OUT	O	Function tape output. Tape: H, Others: L (Not used)
7	DBFB NORMAL	O	DBFB normal (U2: DBFB). ON: H, Others: L
8	NC	O	DBFB high. ON: H, Others: L (Not used)
9	NC	—	Not used
10	RESET	—	Reset input
11	X2	I	X'tal 4.194314 MHz
12	X1	I	X'tal 4.194314 MHz
13	VSS	—	Ground
14	NC	—	Not used (open)
15	POWER DOWN IN	I	Power down input. AC ON: H, AC OFF: L
16	VDD	—	VDD
17	SOCK	O	CXD2508A SQCK, CLOCK output
18	DATA	O	CXD2508A data output
19	SOSO	I	CXD2508A SQSO input
20	XLAT	O	CXD2508A XLAT output. Latch: L, Others: H
21	CE	O	Chip enable output to LC7218, LC75392. Data: H, Address: L
22	CLK	O	CLK output
23	DO	O	Data output
24	DI	I	Data input
25	VSS	—	Ground
26	CD STB	O	STB output to SN74HC4094. STB: L, Others: H
27	FLAT	O	Flat output. Flat: H, Others: L (Not used)
28	VSS	—	Ground
29	K4	I	Key input 4 to A/D
30	K3	I	Key input 3 to A/D
31	K2	I	Key input 2 to A/D
32	K1	I	Key input 1 to A/D
33	K0	I	Key input 0 to A/D
34	AVDD	O	VDD of A/D converter
35	AVREF	—	Reference voltage of A/D converter
36	A LATCH	O	Latch output to BU2092. Latch: H, Others: L
37	B LATCH	—	Not used
38	SCOR	I	CXD2508A SCOR
39	REMOTE IN	I	Remote signal input. ON: H, OFF: L
40	VSS	—	Ground
41	NC	O	Shift or load output to SN74HC165. Shift: H, Load: L (Not used)
42	VSS	I	Data input to SN74HC165 (Ground)
43	DECK STB	O	STB output to BU2114, SN74HC4094. STB:H, Others: L (Not used)
44	VR UP	I	VR encoder A input. ON:L, OFF: H
45	VR DOWN	I	VR encoder B input. ON:L, OFF: H
46	VDD	—	VDD
47	FM ST IN	I	FM stereo indicator input. Stereo:L, Mono: H
48	SYNC REC IN	I	Synchro record input. Record:L, Other: H
49	VSS	I	CD encoder A input. ON: L, OFF: H (Ground)
50	VSS	I	CD encoder B input. ON: L, OFF: H (Ground)

Pin No.	Pin Name	I/O	Description
51	SENS	I	Input from CXD2508A SENS
52	FOK	I	Input from CXD2508A FOK. OK: H, Others: L
53	COUNT	I	Input from CXD2508A COUNT
54	VSS	—	Ground
55	PIC UP	I	Input from CD mechanism pick up switch. Up: L, Others: H
56	PIC DOWN	I	Input from CD mechanism pick down switch. Down: L, Others: H
57	DISC COUNT SW	I	Input from CD mechanism disc count switch. Count: L, Others: H
58	TURN TABLE SW	I	Input from CD mechanism turn table switch. ON: L, OFF: H
59	TRAY OPEN SW	I	Input from CD mechanism tray open switch. Open: L, Others: H
60	TRAY CLOSE SW	I	Input from CD mechanism tray close switch. Open: L, Others: H
61	VSS	I	AMS signal input. During program: H, Interval between programs: L
62	SERI MUTE (TUNER)	O	Serial mute (tuner) output (Not used)
63	MODE SW IN	I	Input from destination select mode switch. ON: H, OFF: L
64	P1	O	FLD segment signal output P1. ON: H, OFF: L
65	P2	O	FLD segment signal output P2. ON: H, OFF: L
66	P3	O	FLD segment signal output P3. ON: H, OFF: L
67	P4	O	FLD segment signal output P4. ON: H, OFF: L
68	P5	O	FLD segment signal output P5. ON: H, OFF: L
69	P6	O	FLD segment signal output P6. ON: H, OFF: L
70	P7	O	FLD segment signal output P7. ON: H, OFF: L
71	P8	O	FLD segment signal output P8. ON: H, OFF: L
72	P9	O	FLD segment signal output P9. ON: H, OFF: L
73	P10	O	FLD segment signal output P10. ON: H, OFF: L
74	P11	O	FLD segment signal output P11. ON: H, OFF: L
75	P12	O	FLD segment signal output P12. ON: H, OFF: L
76	P13	O	FLD segment signal output P13. ON: H, OFF: L
77	P14	O	FLD segment signal output P14. ON: H, OFF: L
78	P15	O	FLD segment signal output P15. ON: H, OFF: L
79	–V LOAD	—	(–) negative power supply
80	P16	O	FLD segment signal output P16. ON: H, OFF: L
81	P17	O	FLD segment signal output P17. ON: H, OFF: L
82	P18	O	FLD segment signal output P18. ON: H, OFF: L
83	P19	O	FLD segment signal output P19. ON: H, OFF: L
84	P20	O	FLD segment signal output P20. ON: H, OFF: L
85	P21	O	FLD segment signal output P21. ON: H, OFF: L
86	G15	O	FLD grid signal output 15. ON: H, OFF: L
87	G14	O	FLD grid signal output 14. ON: H, OFF: L
88	G13	O	FLD grid signal output 13. ON: H, OFF: L
89	G12	O	FLD grid signal output 12. ON: H, OFF: L
90	G11	O	FLD grid signal output 11. ON: H, OFF: L
91	G10	O	FLD grid signal output 10. ON: H, OFF: L
92	G9	O	FLD grid signal output 9. ON: H, OFF: L
93	G8	O	FLD grid signal output 8. ON: H, OFF: L
94	G7	O	FLD grid signal output 7. ON: H, OFF: L
95	G6	O	FLD grid signal output 6. ON: H, OFF: L
96	G5	O	FLD grid signal output 5. ON: H, OFF: L
97	G4	O	FLD grid signal output 4. ON: H, OFF: L
98	G3	O	FLD grid signal output 3. ON: H, OFF: L
99	G2	O	FLD grid signal output 2. ON: H, OFF: L
100	G1	O	FLD grid signal output 1. ON: H, OFF: L

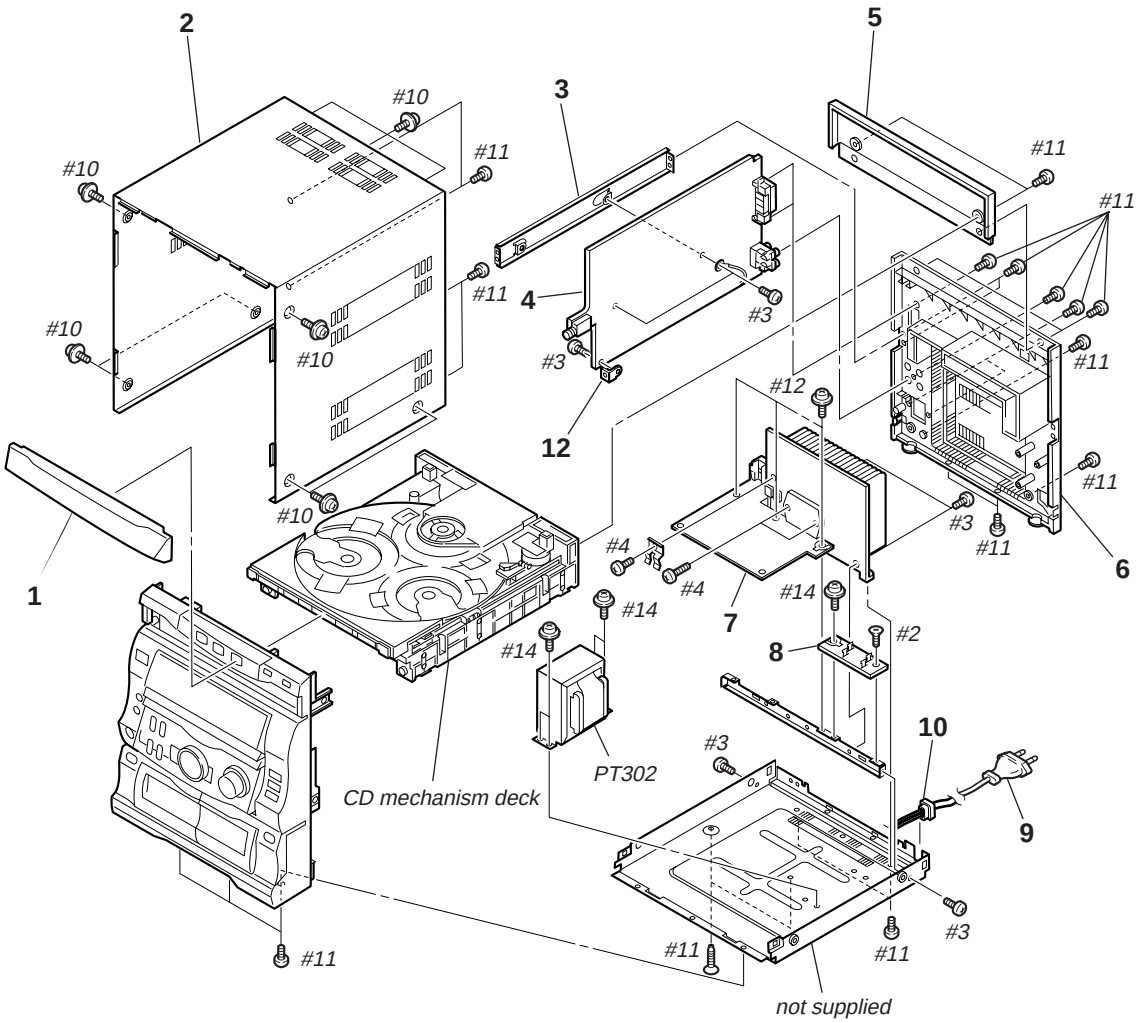
SECTION 6
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

When indicating parts by reference number, please include the board name.

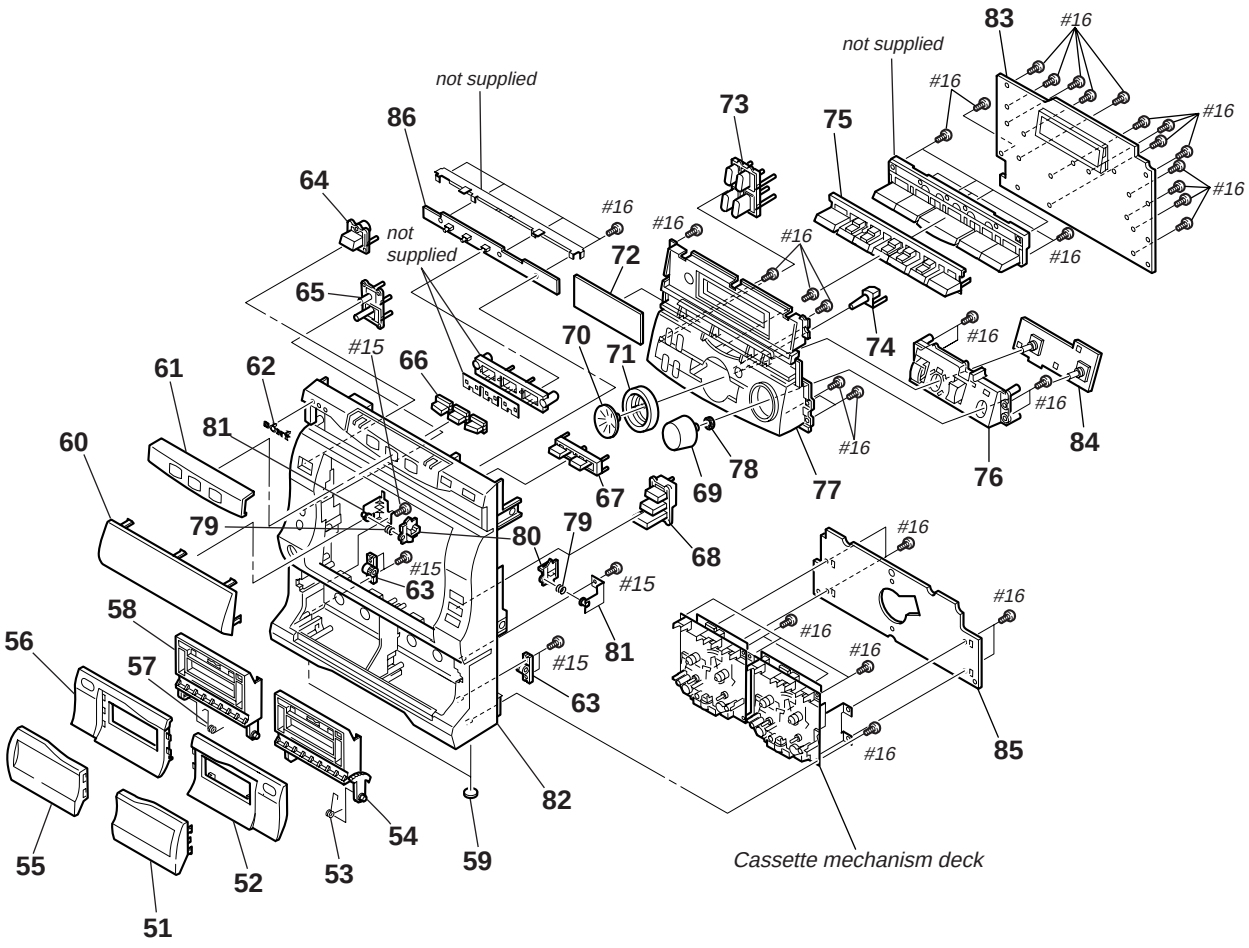
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

6-1. CABINET SECTION



Ref. No.	Part No.	Description	Remarks
1	4-210-584-01	WINDOW, CD	
* 2	4-211-426-01	COVER, TOP (R500)	
* 2	4-210-589-01	COVER, TOP (RX55)	
3	4-210-579-01	HOLDER, MAIN PC BOARD	
* 4	A-4405-481-A	MAIN BOARD, COMPLETE	
* 5	4-210-591-01	CABINET (A), REAR	
* 6	4-210-590-01	COVER, REAR (RX55)	
* 6	4-211-418-01	COVER, REAR (R500)	
* 7	A-4405-478-A	AMP BOARD, COMPLETE	
* 8	1-670-445-11	FUSE BOARD	
⚠9	1-556-035-00	CORD, POWER (UK)	
⚠9	1-765-558-11	CORD, POWER (EXCEPT UK)	
* 10	3-703-244-00	BUSHING (2104), CORD	
12	4-210-580-01	SPACER (SCC-20), PC BOARD	
⚠PT302	1-431-951-11	TRANSFORMER, POWER	

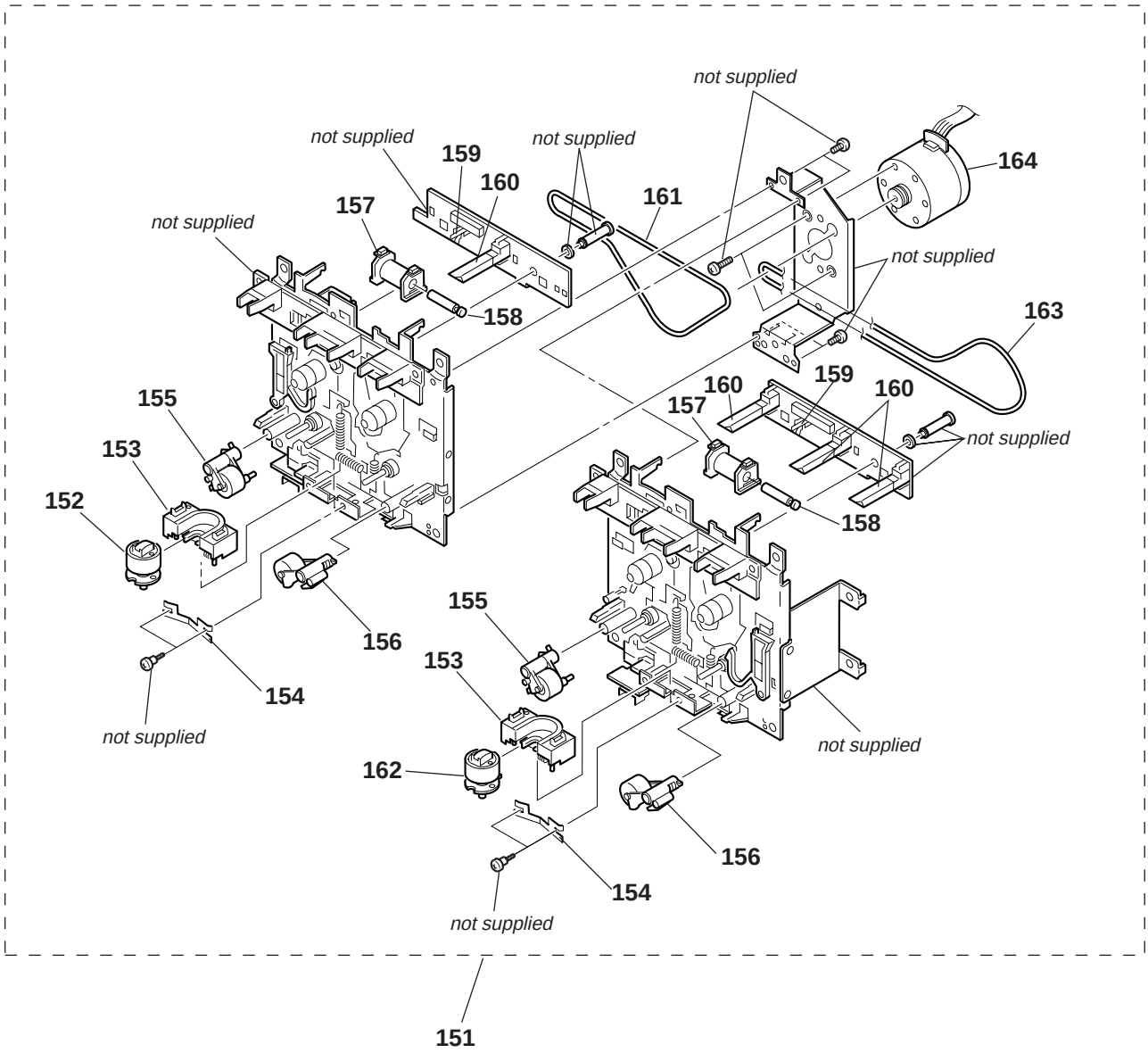
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
51	4-210-586-01	WINDOW (R), CASSETTE	
52	4-211-425-01	DOOR (R), CASSETTE (R500)	
52	4-210-588-01	DOOR (R), CASSETTE (RX55)	
53	4-210-577-01	SPRING (R), CASSETTE	
54	4-211-433-01	HOLDER (R), CASSETTE (R500)	
54	4-210-572-01	HOLDER (R), CASSETTE (RX55)	
55	4-210-585-01	WINDOW (L), CASSETTE	
56	4-211-424-01	DOOR (L), CASSETTE (R500)	
56	4-210-587-01	DOOR (L), CASSETTE (RX55)	
57	4-210-576-01	SPRING (L), CASSETTE	
58	4-211-432-01	HOLDER (L), CASSETTE (R500)	
58	4-210-571-01	HOLDER (L), CASSETTE (RX55)	
59	4-992-154-01	RUBBER, FOOT	
60	4-210-592-01	WINDOW, DISPLAY	
61	4-210-581-01	HOLDER, CD BUTTON	
62	4-962-708-01	EMBLEM (4-A), SONY	
63	4-992-131-01	DAMPER (GRY), GEAR	
64	4-211-428-01	BUTTON, POWER (R500)	
64	4-210-553-01	BUTTON, POWER (RX55)	
65	4-211-429-01	BUTTON, CLOCK (R500)	
65	4-210-554-01	BUTTON, CLOCK (RX55)	
66	4-211-431-01	BUTTON (B), CD (R500)	
66	4-210-570-01	BUTTON (B), CD (RX55)	

Ref. No.	Part No.	Description	Remarks
67	4-210-556-01	BUTTON, MODE	
68	4-211-430-01	BUTTON, REC (R500)	
68	4-210-560-01	BUTTON, REC (RX55)	
69	4-210-562-01	KNOB, VOLUME	
70	4-210-561-01	KNOB, JOG	
71	4-210-563-01	RING, JOG	
72	4-210-593-01	PLATE, DISPLAY	
73	4-210-558-01	BUTTON, SURROUND	
74	4-210-557-01	BUTTON, NEXT	
75	4-210-555-01	BUTTON, FUNCTION	
76	4-210-559-01	BUTTON, UP/DOWN	
77	4-210-552-01	PANEL (B), FRONT	
78	4-210-574-01	WASHER (9Q), VOLUME	
79	4-210-578-01	SPRING, EJECT LEVER	
80	4-210-575-01	LEVER, EJECT	
81	4-210-573-01	HOLDER, EJECT	
82	4-211-427-01	PANEL (A), FRONT(R500)	
82	4-210-551-01	PANEL (A), FRONT (RX55)	
* 83	A-4405-484-A	PANEL BOARD, COMPLETE	
* 84	1-670-441-11	VOLUME BOARD	
* 85	A-4414-609-A	DECK BOARD, COMPLETE	
* 86	1-670-443-11	CD BUTTON BOARD	

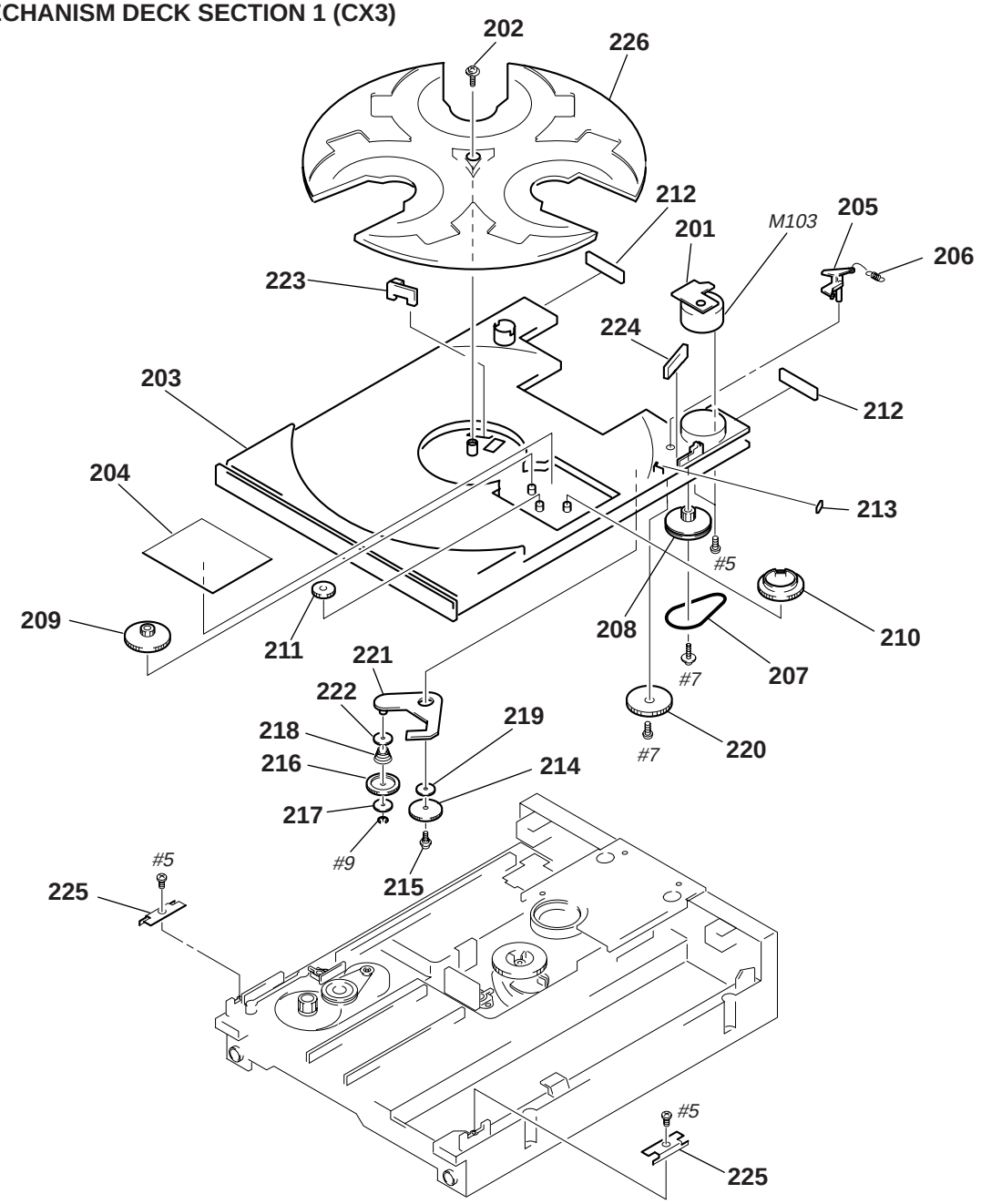
6-3. CASSETTE MECHANISM DECK SECTION (CWB44RR10)



Ref. No.	Part No.	Description	Remarks
151	1-759-633-11	DECK, MECHANICAL	
152	9-880-883-01	HOLDER HEAD ASSY	
153	9-880-884-01	FRAME HEAD	
154	9-880-885-01	SPRING AZIMUTH	
155	9-880-886-01	ARM PINCH L ASSY	
156	9-880-887-01	ARM PINCH R ASSY	
157	9-880-889-01	COIL ASSY	

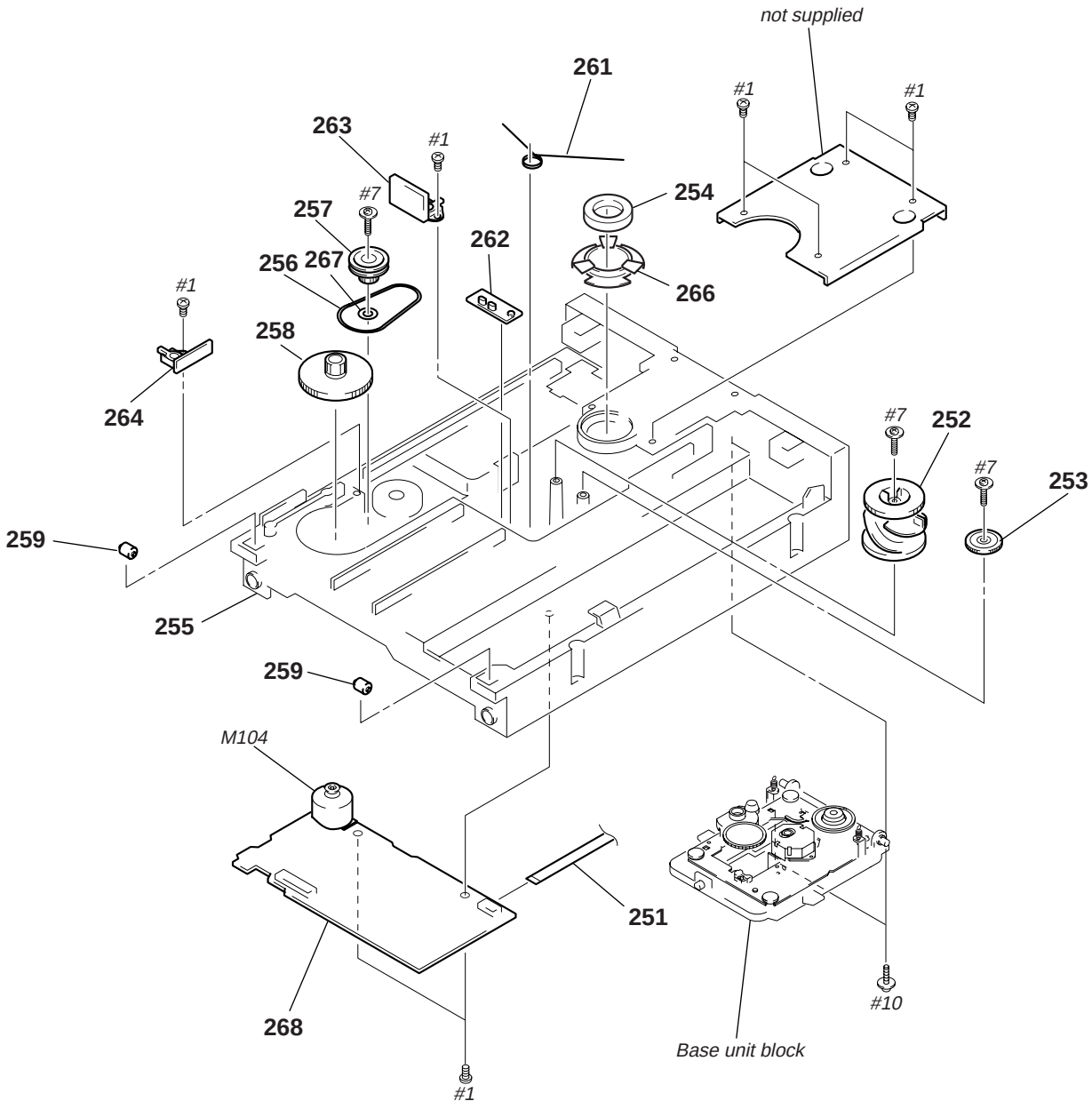
Ref. No.	Part No.	Description	Remarks
158	9-880-890-01	PLUNGER	
159	9-880-891-01	MODE SW	
160	9-880-892-01	SWITCH LEAF	
161	9-880-893-01	BELT	
162	9-880-894-01	HOLDER HEAD ASSY	
163	9-880-895-01	BELT	
164	9-880-896-01	MOTOR ASSY	

6-4. CD MECHANISM DECK SECTION 1 (CX3)



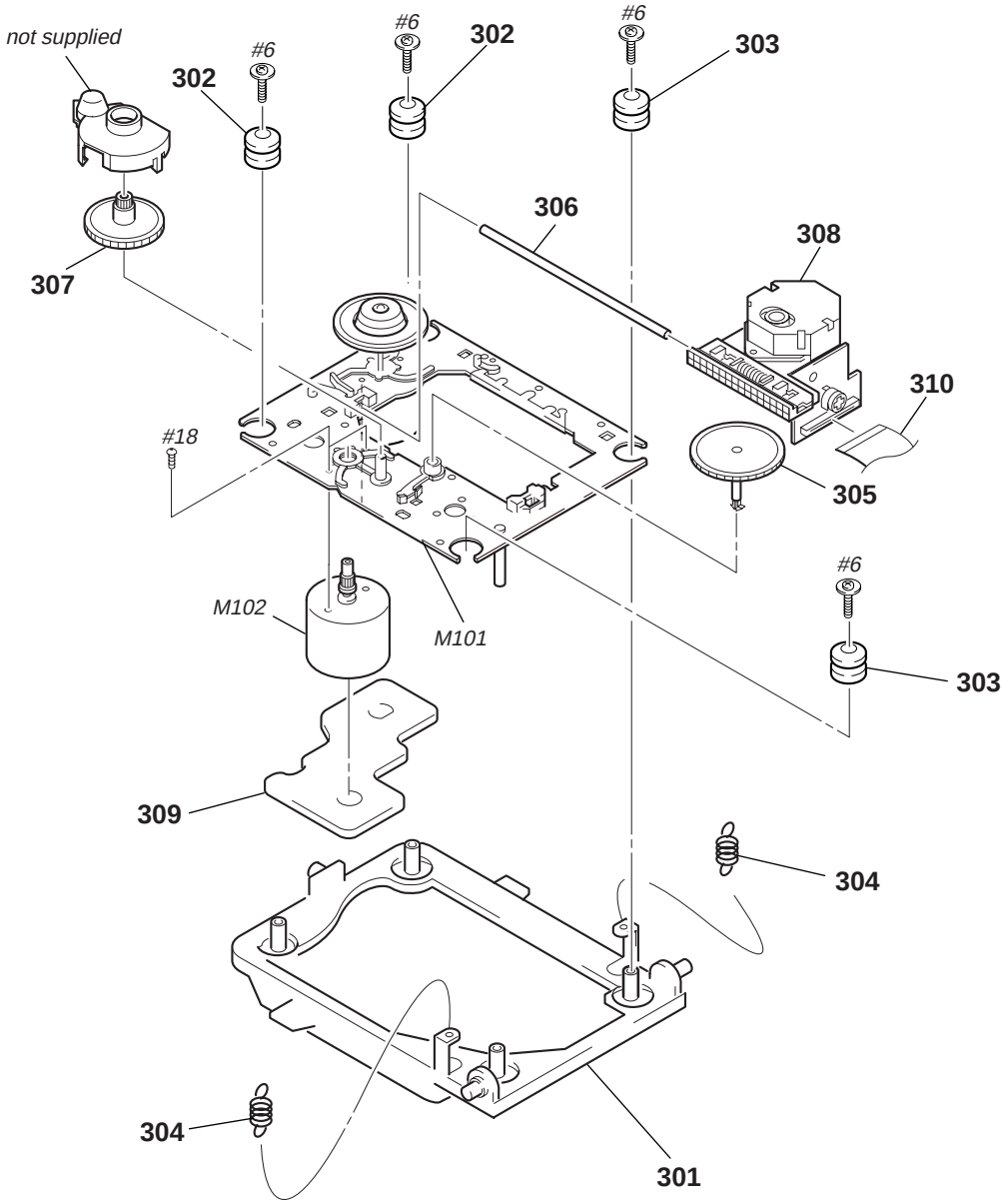
Ref. No.	Part No.	Description	Remarks
* 201	1-670-801-11	MOTOR BOARD	
202	3-669-480-11	+ PTPWH 2	
203	4-992-168-01	TRAY, CHANGER BASE	
204	4-992-180-01	PLATE, BLIND	
205	4-992-181-01	LEVER, SENSOR (SW)	
206	4-992-182-01	SPRING, SENSOR (SW) LEVER	
207	4-992-170-01	BELT, LOADING	
208	4-992-171-01	PULLEY, GEAR	
209	4-992-179-01	GEAR, TR	
210	4-992-177-01	GEAR, TR LOCK	
211	4-992-178-01	GEAR (C), RELAY	
212	4-992-187-01	CUSHION	
213	4-992-186-01	CUSHION, SW LEVER	
214	4-992-173-01	GEAR (B), RELAY	
215	4-992-183-01	SCREW, RELAY GEAR (B)	
216	4-992-174-01	GEAR, CHANGE	
217	4-992-184-01	WASHER, CHANGE GEAR	
218	4-992-176-01	SPRING, CHANGE GEAR	
219	4-992-185-01	WASHER, CHANGE PLATE	
220	4-992-172-01	GEAR (A), RELAY	
* 221	4-993-032-01	PLATE, CHANGE	
222	4-993-033-01	WASHER, POLY ETHYLENE	
* 223	1-670-798-11	SW (B) BOARD	
* 224	1-670-797-11	SW (A) BOARD	
* 225	4-993-034-01	GUIDE, RAIL	
226	4-993-140-01	TURN TABLE	
M103	X-4948-765-1	MOTOR ASSY (TURN TABLE)	

6-5. CD MECHANISM DECK SECTION 2 (CX3)



Ref. No.	Part No.	Description	Remarks
251	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)	
252	4-992-190-01	UD-CAM	
253	4-992-191-01	UD-GEAR	
254	4-992-195-01	MAGNET	
* 255	4-992-196-01	CHASSIS, MAIN	
256	4-992-197-01	BELT, LOADING GEAR	
257	4-992-198-01	PULLEY (B), GEAR	
258	4-992-199-01	GEAR, SLIDE	
259	4-992-200-01	ROLLER	
261	4-992-192-01	SPRING, BRAKE CAM	
262	4-992-193-01	LEVER, SW	
* 263	1-670-800-11	SW (D) BOARD	
* 264	1-670-799-11	SW (C) BOARD	
266	4-992-194-01	CLAMP	
267	4-992-201-01	WASHER, POLYETHYLENE	
* 268	A-4414-924-A	CD DECODER BOARD, COMPLETE	
M104	X-4948-766-1	MOTOR ASSY (A) (TRAY)	

6-6. BASE UNIT SECTION (KSM-213BCM)



Ref. No.	Part No.	Description	Remarks
301	4-992-164-01	BASE, KSM MECHANICAL	
302	4-992-165-01	DAMPER (GREEN)	
303	4-992-166-01	DAMPER (RED)	
304	4-992-167-01	SPRING, MECHANICAL BASE	
305	2-626-907-01	GEAR (A) (S)	
306	2-626-908-01	SHAFT, SLED	
307	2-627-003-02	GEAR (B)	
⚠308	8-848-379-31	OPTICAL PICK-UP KSS-213B/S-N	
* 309	1-639-678-12	MOTOR (6P)(S) BOARD	
310	1-783-740-11	WIRE (FLAT TYPE) (16 CORE)	
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)	
M102	X-2625-769-1	MOTOR ASSY (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 7
ELECTRICAL PARTS LIST

AMP

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

Ref. No.	Part No.	Description			Remarks
*	A-4405-478-A	AMP BOARD, COMPLETE **********			
*	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C705	1-126-961-11	ELECT	2.2uF	20%	50V
C706	1-126-961-11	ELECT	2.2uF	20%	50V
C707	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C709	1-126-967-11	ELECT	47uF	20%	16V
C710	1-126-967-11	ELECT	47uF	20%	16V
C711	1-126-968-11	ELECT	100uF	20%	50V
C712	1-126-967-11	ELECT	47uF	20%	16V
C715	1-126-967-11	ELECT	47uF	20%	16V
C716	1-126-964-11	ELECT	10uF	20%	50V
C719	1-137-150-11	FILM	0.01uF	5%	100V
C720	1-137-150-11	FILM	0.01uF	5%	100V
C721	1-137-354-11	FILM	0.1uF	5%	100V
C722	1-137-354-11	FILM	0.1uF	5%	100V
C723	1-126-961-11	ELECT	2.2uF	20%	50V
C724	1-137-150-11	FILM	0.01uF	5%	100V
C725	1-126-235-11	ELECT	100uF	20%	16V
C726	1-126-967-11	ELECT	47uF	20%	16V
C730	1-126-963-11	ELECT	4.7uF	20%	50V
C735	1-162-282-31	CERAMIC	100PF	10%	50V
C736	1-162-282-31	CERAMIC	100PF	10%	50V
C741	1-117-750-11	ELECT	3300uF	20%	63V
C742	1-117-750-11	ELECT	3300uF	20%	63V
C743	1-137-354-11	FILM	0.1uF	5%	100V
C744	1-137-354-11	FILM	0.1uF	5%	100V
C745	1-137-354-11	FILM	0.1uF	5%	100V
C746	1-137-354-11	FILM	0.1uF	5%	100V
C748	1-161-055-00	CERAMIC	0.022uF	10%	50V
C749	1-161-055-00	CERAMIC	0.022uF	10%	50V
C750	1-126-943-11	ELECT	2200uF	20%	25V
C752	1-126-933-11	ELECT	100uF	20%	16V
C753	1-161-055-00	CERAMIC	0.022uF	10%	50V
C754	1-161-055-00	CERAMIC	0.022uF	10%	50V
C755	1-126-948-11	ELECT	100uF	20%	35V
C756	1-126-948-11	ELECT	100uF	20%	35V
C757	1-161-055-00	CERAMIC	0.022uF	10%	50V
C758	1-126-949-11	ELECT	220uF	20%	35V
C759	1-161-055-00	CERAMIC	0.022uF	10%	50V
C760	1-126-933-11	ELECT	100uF	20%	16V
C761	1-161-055-00	CERAMIC	0.022uF	10%	50V
C762	1-126-935-11	ELECT	470uF	20%	16V
C763	1-161-055-00	CERAMIC	0.022uF	10%	50V
C768	1-161-055-00	CERAMIC	0.022uF	10%	50V
C770	1-126-967-11	ELECT	47uF	20%	50V
C775	1-107-712-11	ELECT	3.3uF	20%	50V
C776	1-161-055-00	CERAMIC	0.022uF	10%	50V
C777	1-161-055-00	CERAMIC	0.022uF	10%	50V
C778	1-126-960-11	ELECT	1uF	20%	50V
C781	1-126-933-11	ELECT	100uF	20%	16V
C782	1-126-949-11	ELECT	220uF	20%	35V
C783	1-161-055-00	CERAMIC	0.022uF	10%	50V
C784	1-161-055-00	CERAMIC	0.022uF	10%	50V
C785	1-161-055-00	CERAMIC	0.022uF	10%	50V
		< CONNECTOR >			
CN703	1-564-510-11	PLUG, CONNECTOR 7P			
		< DIODE >			
D701	8-719-025-88	DIODE GBU4JL-6088			
D705	8-719-031-85	DIODE 1N4002L			
D706	8-719-031-85	DIODE 1N4002L			
D707	8-719-031-85	DIODE 1N4002L			
D708	8-719-031-85	DIODE 1N4002L			
D711	8-719-110-31	DIODE RD12ES-B2			
D712	8-719-921-67	DIODE MTZJ-8.2B			
D713	8-719-982-15	DIODE MTZJ-27B			
D714	8-719-010-34	DIODE UZ-4.7BSC			
D715	8-719-911-19	DIODE 1SS119			
D716	8-719-911-19	DIODE 1SS119			
D717	8-719-911-19	DIODE 1SS119			
D718	8-719-911-19	DIODE 1SS119			
D720	8-719-031-85	DIODE 1N4002L			
D721	8-719-911-19	DIODE 1SS119			
D731	8-719-031-85	DIODE 1N4002L			
D732	8-719-031-85	DIODE 1N4002L			
		< FUSE >			
⚠F701	1-532-388-51	FUSE 2A/250V			
		< IC >			
IC401	8-749-900-34	IC STK-4182MK2			
IC402	8-759-111-68	IC UPC1237HA			

AMP | CD BUTTON | CD DECODER

Ref. No.	Part No.	Description				Remarks
		< TERMINAL >				
JK703	1-694-443-11	TERMINAL BOARD				
		< TRANSISTOR >				
Q701	8-729-188-23	TRANSISTOR	2SD882-P			
Q702	8-729-188-23	TRANSISTOR	2SD882-P			
Q703	8-729-232-32	TRANSISTOR	2SA965			
Q706	8-729-194-57	TRANSISTOR	2SC945-P			
Q707	8-729-194-57	TRANSISTOR	2SC945-P			
Q708	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q709	8-729-231-55	TRANSISTOR	2SC2878-AB			
Q710	8-729-231-55	TRANSISTOR	2SC2878-AB			
		< RESISTOR >				
R705	1-249-438-11	CARBON	56K	5%	1/4W	
R706	1-249-438-11	CARBON	56K	5%	1/4W	
R707	1-249-466-11	CARBON	56K	5%	1/4W	
R708	1-249-466-11	CARBON	56K	5%	1/4W	
R709	1-247-128-00	CARBON	750	1%	1/4W	
R710	1-247-128-00	CARBON	750	1%	1/4W	
R711	1-260-103-11	CARBON	2.2K	5%	1/2W	
R712	1-260-103-11	CARBON	2.2K	5%	1/2W	
R713	1-249-405-11	CARBON	100	5%	1/4W	F
R714	1-249-405-11	CARBON	100	5%	1/4W	F
R715	1-247-717-11	CARBON	2.2K	5%	1/4W	F
R716	1-247-717-11	CARBON	2.2K	5%	1/4W	F
R718	1-247-713-11	CARBON	1K	5%	1/4W	F
R719	1-247-887-00	CARBON	220K	5%	1/4W	
R720	1-247-887-00	CARBON	220K	5%	1/4W	
R721	1-249-406-11	CARBON	120	5%	1/4W	F
R722	1-249-406-11	CARBON	120	5%	1/4W	F
R723	1-220-853-11	METAL	0.1	10%	2W	
R724	1-220-853-11	METAL	0.1	10%	2W	
R725	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R726	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R727	1-249-459-11	CARBON	12K	5%	1/4W	
R728	1-249-459-11	CARBON	12K	5%	1/4W	
R729	1-247-717-11	CARBON	2.2K	5%	1/4W	F
R730	1-249-465-11	CARBON	47K	5%	1/4W	
R731	1-247-887-00	CARBON	220K	5%	1/4W	
R732	1-247-713-11	CARBON	1K	5%	1/4W	F
R734	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R735	1-260-076-11	CARBON	10	5%	1/2W	
R736	1-260-076-11	CARBON	10	5%	1/2W	
R741	1-213-036-11	FUSIBLE	1	5%	1W	F
R742	1-247-706-11	CARBON	330	5%	1/4W	F
R743	1-247-714-11	CARBON	1.2K	5%	1/4W	F
R744	1-247-708-11	CARBON	470	5%	1/4W	F
R747	1-247-807-11	CARBON	100	5%	1/4W	
R748	1-247-807-11	CARBON	100	5%	1/4W	
R751	1-247-807-11	CARBON	100	5%	1/4W	
R755	1-249-438-11	CARBON	56K	5%	1/4W	
R756	1-249-438-11	CARBON	56K	5%	1/4W	
R761	1-247-839-11	CARBON	2.2K	5%	1/4W	
R762	1-247-839-11	CARBON	2.2K	5%	1/4W	
R765	1-247-855-11	CARBON	10K	5%	1/4W	
R767	1-247-839-11	CARBON	2.2K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
		< RELAY >				
RL701	1-515-921-11	RELAY (12V)				
**********						
*	1-670-443-11	CD BUTTON BOARD				
		**********				
		< LED >				
LED602	8-719-046-80	DIODE SML19416W-TP4				
LED603	8-719-046-80	DIODE SML19416W-TP4				
LED604	8-719-046-80	DIODE SML19416W-TP4				
		< RESISTOR >				
R680	1-247-841-11	CARBON	2.7K	5%	1/4W	
R681	1-247-845-11	CARBON	3.9K	5%	1/4W	F
R682	1-247-851-11	CARBON	6.8K	5%	1/4W	
R683	1-247-859-11	CARBON	15K	5%	1/4W	
R684	1-247-869-11	CARBON	39K	5%	1/4W	
		< SWITCH >				
S624	1-762-875-11	SWITCH, KEYBOARD (DISK 1)				
S625	1-762-875-11	SWITCH, KEYBOARD (DISK 2)				
S626	1-762-875-11	SWITCH, KEYBOARD (DISK 3)				
S627	1-762-875-11	SWITCH, KEYBOARD (DISK SKIP)				
S628	1-762-875-11	SWITCH, KEYBOARD (OPEN/EJECT)				
**********						
*	A-4414-924-A	CD DECODER BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C02	1-126-963-11	ELECT	4.7uF	20%	50V	
C03	1-126-933-11	ELECT	100uF	20%	10V	
C04	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C04A	1-164-159-11	CERAMIC	0.1uF		50V	
C05	1-136-159-00	FILM	0.033uF	5%	50V	
C06	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C07	1-136-159-00	FILM	0.033uF	5%	50V	
C07A	1-162-199-31	CERAMIC	10PF	5%	50V	
C08	1-161-494-00	CERAMIC	0.022uF		25V	
C09	1-126-959-11	ELECT	0.47uF	20%	50V	
C10	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C11	1-126-933-11	ELECT	100uF	20%	10V	
C11A	1-164-159-11	CERAMIC	0.1uF		50V	
C12	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C13	1-164-159-11	CERAMIC	0.1uF		50V	
C14	1-162-302-11	CERAMIC	0.0022uF	30%	16V	
C15	1-164-159-11	CERAMIC	0.1uF		50V	
C16	1-136-159-00	FILM	0.033uF	5%	50V	
C17	1-136-165-00	FILM	0.1uF	5%	50V	
C18	1-164-159-11	CERAMIC	0.1uF		50V	
C19	1-126-963-11	ELECT	4.7uF	20%	50V	
C20	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C21	1-136-157-00	FILM	0.022uF	5%	50V	
C22	1-126-933-11	ELECT	100uF	20%	10V	
C23	1-164-159-11	CERAMIC	0.1uF		50V	
C24	1-126-965-11	ELECT	22uF	20%	50V	
C25	1-126-960-11	ELECT	1uF	20%	50V	
C26	1-161-494-00	CERAMIC	0.022uF		25V	
C27	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C28	1-164-159-11	CERAMIC	0.1uF		50V	

Ref. No.	Part No.	Description			Remarks
C30	1-126-933-11	ELECT	100uF	20%	10V
C30A	1-164-159-11	CERAMIC	0.1uF		50V
C31	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C32	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C33	1-162-306-11	CERAMIC	0.01uF	20%	16V
C34	1-162-286-31	CERAMIC	220PF	10%	50V
C35	1-162-306-11	CERAMIC	0.01uF	20%	16V
C36	1-126-963-11	ELECT	4.7uF	20%	50V
C37	1-164-159-11	CERAMIC	0.1uF		50V
C37A	1-126-925-11	ELECT	470uF	20%	10V
C38	1-102-958-00	CERAMIC	20PF	5%	50V
C39	1-102-958-00	CERAMIC	20PF	5%	50V
C41A	1-162-294-31	CERAMIC	0.001uF	10%	50V
C42A	1-162-294-31	CERAMIC	0.001uF	10%	50V
C44A	1-162-294-31	CERAMIC	0.001uF	10%	50V
C45	1-126-934-11	ELECT	220uF	20%	10V
C46	1-126-933-11	ELECT	100uF	20%	10V
C51	1-162-288-31	CERAMIC	330PF	10%	50V
C51A	1-126-959-11	ELECT	0.47uF	20%	50V
C52	1-162-288-31	CERAMIC	330PF	10%	50V
C53	1-162-284-31	CERAMIC	150PF	10%	50V
C54	1-162-284-31	CERAMIC	150PF	10%	50V
C55	1-162-284-31	CERAMIC	150PF	10%	50V
C56	1-162-284-31	CERAMIC	150PF	10%	50V
C57	1-126-961-11	ELECT	2.2uF	20%	50V
C58	1-126-961-11	ELECT	2.2uF	20%	50V
C59	1-162-294-31	CERAMIC	0.001uF	10%	50V
C60	1-162-294-31	CERAMIC	0.001uF	10%	50V
C81	1-164-159-11	CERAMIC	0.1uF		50V
C83	1-164-159-11	CERAMIC	0.1uF		50V
C84	1-162-282-31	CERAMIC	100PF	10%	50V
C85	1-162-292-31	CERAMIC	680PF	10%	50V
C86	1-162-282-31	CERAMIC	100PF	10%	50V
C86A	1-161-494-00	CERAMIC	0.022uF		25V
C87	1-162-282-31	CERAMIC	100PF	10%	50V
C88	1-162-282-31	CERAMIC	100PF	10%	50V
C90	1-161-494-00	CERAMIC	0.022uF		25V
C90A	1-164-159-11	CERAMIC	0.1uF		50V
C98	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CN01	1-580-475-11	SOCKET, CONNECTOR 16P			
CN05	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CN06	1-695-366-21	PIN, CONNECTOR (PC BOARD) 5P			
CN09	1-770-528-31	PIN, CONNECTOR (PC BOARD) 21P			
		< DIODE >			
D01	8-719-911-19	DIODE 1SS119-25			
D04	8-719-921-41	DIODE 1SS133T			
D04A	8-719-991-33	DIODE 1SS176			
		< IC >			
IC01	8-752-069-56	IC CXA1782BQ			
IC02	8-759-388-27	IC TC9173P			
IC03	8-759-429-31	IC BA5941FP			
IC04	8-752-373-06	IC CXD2508AQ			
IC05	8-759-505-55	IC NJM4558L			
IC06	8-759-505-55	IC NJM4558L			

Ref. No.	Part No.	Description				Remarks
		< COIL >				
L01	1-410-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q01	8-729-195-23	TRANSISTOR	2SA952			
Q02	8-729-195-23	TRANSISTOR	2SA952			
Q04	8-729-194-57	TRANSISTOR	2SC945-P			
Q11	8-729-195-23	TRANSISTOR	2SA952			
		< RESISTOR >				
R01	1-249-459-11	CARBON	12K	5%	1/4W	
R02	1-249-430-11	CARBON	12K	5%	1/4W	
R03	1-249-397-11	CARBON	22	5%	1/4W	F
R04A	1-249-409-11	CARBON	220	5%	1/4W	
R05	1-247-863-11	CARBON	22K	5%	1/4W	
R06	1-247-847-11	CARBON	4.7K	5%	1/4W	
R07	1-249-430-11	CARBON	12K	5%	1/4W	
R07A	1-249-430-11	CARBON	12K	5%	1/4W	
R07B	1-249-430-11	CARBON	12K	5%	1/4W	
R08	1-249-460-11	CARBON	15K	5%	1/4W	
R09	1-249-460-11	CARBON	15K	5%	1/4W	
R09A	1-247-847-11	CARBON	4.7K	5%	1/4W	
R10	1-247-718-11	CARBON	2.7K	5%	1/4W	F
R11	1-249-438-11	CARBON	56K	5%	1/4W	
R12	1-247-879-11	CARBON	100K	5%	1/4W	
R13	1-247-896-11	CARBON	510K	5%	1/4W	
R13A	1-247-861-11	CARBON	18K	5%	1/4W	
R14	1-247-879-11	CARBON	100K	5%	1/4W	
R14A	1-247-861-11	CARBON	18K	5%	1/4W	
R15	1-247-881-00	CARBON	120K	5%	1/4W	
R16	1-247-887-00	CARBON	220K	5%	1/4W	
R17	1-247-879-11	CARBON	100K	5%	1/4W	
R18	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R19	1-249-431-11	CARBON	15K	5%	1/4W	
R21	1-247-863-11	CARBON	22K	5%	1/4W	
R22	1-247-879-11	CARBON	100K	5%	1/4W	
R23	1-249-430-11	CARBON	12K	5%	1/4W	
R24	1-247-883-00	CARBON	150K	5%	1/4W	
R25	1-247-879-11	CARBON	100K	5%	1/4W	
R26	1-247-855-11	CARBON	10K	5%	1/4W	
R27	1-249-430-11	CARBON	12K	5%	1/4W	
R28	1-247-855-11	CARBON	10K	5%	1/4W	
R29	1-247-843-11	CARBON	3.3K	5%	1/4W	
R30	1-247-843-11	CARBON	3.3K	5%	1/4W	
R31	1-247-855-11	CARBON	10K	5%	1/4W	
R32	1-247-903-00	CARBON	1M	5%	1/4W	
R33	1-247-855-11	CARBON	10K	5%	1/4W	
R34	1-247-879-11	CARBON	100K	5%	1/4W	
R35	1-247-847-11	CARBON	4.7K	5%	1/4W	
R36	1-247-847-11	CARBON	4.7K	5%	1/4W	
R37	1-247-807-11	CARBON	100	5%	1/4W	
R38	1-247-807-11	CARBON	100	5%	1/4W	
R39	1-247-847-11	CARBON	4.7K	5%	1/4W	
R41	1-247-807-11	CARBON	100	5%	1/4W	
R42	1-247-807-11	CARBON	100	5%	1/4W	
R44	1-247-807-11	CARBON	100	5%	1/4W	
R50	1-247-847-11	CARBON	4.7K	5%	1/4W	
R52	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R53	1-249-411-11	CARBON	330	5%	1/4W	
R56	1-247-847-11	CARBON	4.7K	5%	1/4W	

CD DECODER DECK

Ref. No.	Part No.	Description			Remarks
R57	1-249-427-11	CARBON	6.8K	5%	1/4W F
R58	1-249-442-11	CARBON	510	5%	1/4W
R59	1-247-903-00	CARBON	1M	5%	1/4W
R61	1-247-855-11	CARBON	10K	5%	1/4W
R62	1-247-855-11	CARBON	10K	5%	1/4W
R63	1-247-855-11	CARBON	10K	5%	1/4W
R64	1-247-855-11	CARBON	10K	5%	1/4W
R65	1-247-864-11	CARBON	24K	5%	1/4W
R66	1-247-864-11	CARBON	24K	5%	1/4W
R67	1-247-864-11	CARBON	24K	5%	1/4W
R68	1-247-864-11	CARBON	24K	5%	1/4W
R69	1-249-430-11	CARBON	12K	5%	1/4W
R70	1-249-430-11	CARBON	12K	5%	1/4W
R71	1-249-430-11	CARBON	12K	5%	1/4W
R72	1-249-430-11	CARBON	12K	5%	1/4W
R73	1-247-839-11	CARBON	2.2K	5%	1/4W
R74	1-247-839-11	CARBON	2.2K	5%	1/4W
R75	1-247-847-11	CARBON	4.7K	5%	1/4W
R76	1-247-847-11	CARBON	4.7K	5%	1/4W
R79	1-249-405-11	CARBON	100	5%	1/4W F
R80	1-247-883-00	CARBON	150K	5%	1/4W
R81	1-247-807-11	CARBON	100	5%	1/4W
R82	1-247-807-11	CARBON	100	5%	1/4W
R83	1-249-469-11	CARBON	100K	5%	1/4W
R84	1-249-465-11	CARBON	47K	5%	1/4W
R85	1-249-465-11	CARBON	47K	5%	1/4W
R86	1-249-465-11	CARBON	47K	5%	1/4W
R87	1-249-465-11	CARBON	47K	5%	1/4W
R88	1-249-469-11	CARBON	100K	5%	1/4W
R89	1-247-839-11	CARBON	2.2K	5%	1/4W
R90	1-247-839-11	CARBON	2.2K	5%	1/4W
R90B	1-247-831-11	CARBON	1K	5%	1/4W
R91	1-247-839-11	CARBON	2.2K	5%	1/4W
R92	1-247-839-11	CARBON	2.2K	5%	1/4W
R93	1-249-420-11	CARBON	1.8K	5%	1/4W F
R94	1-249-420-11	CARBON	1.8K	5%	1/4W F
		< VARIABLE RESISTOR >			
VR01	1-228-996-00	RES, ADJ, METAL 47K			
VR02	1-228-998-00	RES, ADJ, METAL 220K			
		< CRYSTAL >			
XTL01	1-760-123-11	VIBRATOR, CRYSTAL 33.8688MHz			
**********					
*	A-4414-609-A	DECK BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C201	1-162-292-31	CERAMIC	680PF	10%	50V
C202	1-162-292-31	CERAMIC	680PF	10%	50V
C203	1-162-292-31	CERAMIC	680PF	10%	50V
C204	1-162-292-31	CERAMIC	680PF	10%	50V
C205	1-162-286-31	CERAMIC	220PF	10%	50V
C206	1-162-286-31	CERAMIC	220PF	10%	50V
C207	1-162-286-31	CERAMIC	220PF	10%	50V
C208	1-162-286-31	CERAMIC	220PF	10%	50V
C209	1-126-933-11	ELECT	100uF	20%	10V
C210	1-126-933-11	ELECT	100uF	20%	10V

Ref. No.	Part No.	Description			Remarks
C211	1-161-054-00	CERAMIC	0.018uF	10%	25V
C212	1-161-054-00	CERAMIC	0.018uF	10%	25V
C213	1-126-960-11	ELECT	1uF	20%	50V
C214	1-126-960-11	ELECT	1uF	20%	50V
C215	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C216	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C217	1-126-967-11	ELECT	47uF	20%	16V
C218	1-126-940-11	ELECT	330uF	20%	16V
C219	1-126-962-11	ELECT	3.3uF	20%	50V
C221	1-126-962-11	ELECT	3.3uF	20%	50V
C222	1-126-962-11	ELECT	3.3uF	20%	50V
C223	1-162-290-31	CERAMIC	470PF	10%	50V
C224	1-162-290-31	CERAMIC	470PF	10%	50V
C225	1-164-736-31	CERAMIC	0.0012uF	10%	50V
C226	1-164-736-31	CERAMIC	0.0012uF	10%	50V
C227	1-162-286-31	CERAMIC	220PF	10%	50V
C228	1-162-286-31	CERAMIC	220PF	10%	50V
C229	1-126-933-11	ELECT	100uF	20%	16V
C230	1-126-933-11	ELECT	100uF	20%	16V
C231	1-126-962-11	ELECT	3.3uF	20%	50V
C232	1-126-962-11	ELECT	3.3uF	20%	50V
C233	1-162-294-31	CERAMIC	0.001uF	10%	50V
C234	1-162-294-31	CERAMIC	0.001uF	10%	50V
C237	1-161-494-00	CERAMIC	0.022uF		25V
C238	1-126-961-11	ELECT	2.2uF	20%	50V
C251	1-137-351-11	FILM	0.022uF	5%	100V
C252	1-137-350-11	FILM	0.015uF	5%	100V
C253	1-137-150-11	FILM	0.01uF	5%	100V
C254	1-130-479-00	MYLAR	0.0047uF	5%	50V
C255	1-126-967-11	ELECT	47uF	20%	16V
C501	1-126-934-11	ELECT	220uF	20%	16V
C502	1-126-960-11	ELECT	1uF	20%	50V
C503	1-162-286-31	CERAMIC	220PF	10%	50V
C504	1-162-286-31	CERAMIC	220PF	10%	50V
C505	1-162-286-31	CERAMIC	220PF	10%	50V
C506	1-126-959-11	ELECT	0.47	20%	50V
C507	1-126-959-11	ELECT	0.47	20%	50V
C551	1-162-306-11	CERAMIC	0.01uF	20%	16V
C553	1-126-960-11	ELECT	1uF	20%	50V
C554	1-126-956-11	ELECT	0.1uF	20%	50V
C555	1-126-960-11	ELECT	1uF	20%	50V
C556	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
* CN603	1-568-273-11	SOCKET, CONNECTOR 7P			
		< DIODE >			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D501	8-719-911-19	DIODE 1SS119			
D502	8-719-911-19	DIODE 1SS119			
D551	8-719-911-19	DIODE 1SS119			
D552	8-719-911-19	DIODE 1SS119			
		< IC >			
IC201	8-759-242-58	IC TA8189N			
IC501	8-759-234-75	IC TC74HC4094AP			
IC502	8-759-916-52	IC SN74HC165AN			

Ref. No.	Part No.	Description			Remarks
		< COIL >			
L251	1-416-771-11	COIL (BIAS)			
		< TRANSISTOR >			
Q201	8-729-194-57	TRANSISTOR	2SC945-P		
Q202	8-729-194-57	TRANSISTOR	2SC945-P		
Q203	8-729-194-57	TRANSISTOR	2SC945-P		
Q204	8-729-194-57	TRANSISTOR	2SC945-P		
Q205	8-729-194-57	TRANSISTOR	2SC945-P		
Q206	8-729-194-57	TRANSISTOR	2SC945-P		
Q207	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q208	8-729-173-37	TRANSISTOR	2SA733P		
Q209	8-729-194-57	TRANSISTOR	2SC945-P		
Q213	8-729-194-57	TRANSISTOR	2SC945-P		
Q214	8-729-194-57	TRANSISTOR	2SC945-P		
Q251	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q252	8-729-173-37	TRANSISTOR	2SA733P		
Q253	8-729-194-57	TRANSISTOR	2SC945-P		
Q501	8-729-194-57	TRANSISTOR	2SC945-P		
Q502	8-729-993-43	TRANSISTOR	2SA934R		
Q503	8-729-173-37	TRANSISTOR	2SA733P		
Q504	8-729-140-96	TRANSISTOR	2SD774-34		
Q505	8-729-173-37	TRANSISTOR	2SA733P		
Q506	8-729-140-96	TRANSISTOR	2SD774-34		
Q551	8-729-194-57	TRANSISTOR	2SC945-P		
Q552	8-729-194-57	TRANSISTOR	2SC945-P		
		< RESISTOR >			
R201	1-249-393-11	CARBON	10	5%	1/4W F
R202	1-249-393-11	CARBON	10	5%	1/4W F
R203	1-247-688-11	CARBON	10	5%	1/4W F
R204	1-247-688-11	CARBON	10	5%	1/4W F
R205	1-249-401-11	CARBON	47	5%	1/4W F
R206	1-247-696-11	CARBON	47	5%	1/4W F
R207	1-249-428-11	CARBON	8.2K	5%	1/4W F
R208	1-249-428-11	CARBON	8.2K	5%	1/4W F
R209	1-247-889-00	CARBON	270K	5%	1/4W
R210	1-247-889-00	CARBON	270K	5%	1/4W
R211	1-247-891-00	CARBON	330K	5%	1/4W
R212	1-247-891-00	CARBON	330K	5%	1/4W
R213	1-247-847-11	CARBON	4.7K	5%	1/4W
R214	1-247-847-11	CARBON	4.7K	5%	1/4W
R215	1-247-891-00	CARBON	330K	5%	1/4W
R216	1-247-891-00	CARBON	330K	5%	1/4W
R219	1-249-430-11	CARBON	12K	5%	1/4W
R220	1-249-430-11	CARBON	12K	5%	1/4W
R221	1-247-855-11	CARBON	10K	5%	1/4W
R222	1-247-704-11	CARBON	220	5%	1/4W F
R223	1-247-885-00	CARBON	180K	5%	1/4W
R224	1-247-885-00	CARBON	180K	5%	1/4W
R225	1-247-863-11	CARBON	22K	5%	1/4W
R226	1-247-863-11	CARBON	22K	5%	1/4W
R227	1-247-881-00	CARBON	120K	5%	1/4W
R228	1-247-881-00	CARBON	120K	5%	1/4W
R229	1-249-420-11	CARBON	1.8K	5%	1/4W F
R230	1-249-420-11	CARBON	1.8K	5%	1/4W F
R231	1-247-839-11	CARBON	2.2K	5%	1/4W
R232	1-247-839-11	CARBON	2.2K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R233	1-247-863-11	CARBON	22K	5%	1/4W
R234	1-247-863-11	CARBON	22K	5%	1/4W
R235	1-247-847-11	CARBON	4.7K	5%	1/4W
R236	1-247-847-11	CARBON	4.7K	5%	1/4W
R239	1-249-381-11	CARBON	1	5%	1/4W F
R240	1-247-855-11	CARBON	10K	5%	1/4W
R241	1-247-847-11	CARBON	4.7K	5%	1/4W
R242	1-247-847-11	CARBON	4.7K	5%	1/4W
R243	1-249-430-11	CARBON	12K	5%	1/4W
R244	1-247-839-11	CARBON	2.2K	5%	1/4W
R245	1-247-839-11	CARBON	2.2K	5%	1/4W
R246	1-249-434-11	CARBON	27K	5%	1/4W
R252	1-249-393-11	CARBON	10	5%	1/4W F
R253	1-247-708-11	CARBON	470	5%	1/4W F
R501	1-247-713-11	CARBON	1K	5%	1/4W F
R502	1-249-417-11	CARBON	1K	5%	1/4W F
R503	1-249-417-11	CARBON	1K	5%	1/4W F
R504	1-247-847-11	CARBON	4.7K	5%	1/4W
R505	1-249-417-11	CARBON	1K	5%	1/4W F
R506	1-249-417-11	CARBON	1K	5%	1/4W F
R507	1-249-417-11	CARBON	1K	5%	1/4W F
R508	1-247-847-11	CARBON	4.7K	5%	1/4W
R509	1-247-839-11	CARBON	2.2K	5%	1/4W
R510	1-247-855-11	CARBON	10K	5%	1/4W
R511	1-247-855-11	CARBON	10K	5%	1/4W
R512	1-249-417-11	CARBON	1K	5%	1/4W F
R513	1-247-846-11	CARBON	4.3K	5%	1/4W
R514	1-247-855-11	CARBON	10K	5%	1/4W
R515	1-247-855-11	CARBON	10K	5%	1/4W
R516	1-249-413-11	CARBON	470	5%	1/4W F
R517	1-247-847-11	CARBON	4.7K	5%	1/4W
R518	1-247-863-11	CARBON	22K	5%	1/4W
R519	1-247-847-11	CARBON	4.7K	5%	1/4W
R520	1-247-847-11	CARBON	4.7K	5%	1/4W
R521	1-247-721-11	CARBON	4.7K	5%	1/4W F
R522	1-247-721-11	CARBON	4.7K	5%	1/4W F
R523	1-247-847-11	CARBON	4.7K	5%	1/4W
R524	1-247-863-11	CARBON	22K	5%	1/4W
R525	1-247-855-11	CARBON	10K	5%	1/4W
R526	1-247-855-11	CARBON	10K	5%	1/4W
R527	1-249-413-11	CARBON	470	5%	1/4W F
R528	1-247-847-11	CARBON	4.7K	5%	1/4W
R551	1-247-855-11	CARBON	10K	5%	1/4W
R553	1-247-885-00	CARBON	180K	5%	1/4W
R554	1-247-899-11	CARBON	680K	5%	1/4W
R555	1-247-855-11	CARBON	10K	5%	1/4W
R556	1-249-413-11	CARBON	470	5%	1/4W F
R557	1-247-885-00	CARBON	180K	5%	1/4W
R558	1-247-899-11	CARBON	680K	5%	1/4W
R559	1-247-855-11	CARBON	10K	5%	1/4W
R560	1-249-413-11	CARBON	470	5%	1/4W F
R561	1-247-855-11	CARBON	10K	5%	1/4W
R562	1-247-879-11	CARBON	100K	5%	1/4W
R563	1-247-704-11	CARBON	220	5%	1/4W F
R205A	1-249-409-11	CARBON	220	5%	1/4W F
R206A	1-249-409-11	CARBON	220	5%	1/4W F
		< ADJ >			
SFR501	1-228-991-00	RES, ADJ, METAL 2.2K			

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FUSE MAIN

Ref. No.	Part No.	Description			Remarks
*	1-670-445-11	FUSE BOARD			
		**********			
	1-533-293-11	FUSE HOLDER			
		< TERMINAL >			
AC1	1-535-416-00	TERMINAL			
AC2	1-535-416-00	TERMINAL			
P6	1-535-416-00	TERMINAL			
P7	1-535-416-00	TERMINAL			
		< FUSE >			
⚠F702	1-532-388-51	FUSE 2A/250V			
		< RESISTOR >			
⚠R001	1-202-727-00	CARBON	4.7M	5%	1/3W
**********					
*	A-4405-481-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C106	1-161-494-00	CERAMIC	0.022uF		25V
C107	1-161-051-00	CERAMIC	0.01uF	10%	50V
C108	1-126-933-11	ELECT	100uF	20%	16V
C113	1-164-159-11	CERAMIC	0.1uF		50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-162-294-31	CERAMIC	0.001uF	10%	50V
C116	1-130-014-00	FILM	470PF	5%	50V
C117	1-162-284-31	CERAMIC	150PF	10%	50V
C118	1-126-933-11	ELECT	100uF	20%	16V
C120	1-161-494-00	CERAMIC	0.022uF		25V
C121	1-162-290-31	CERAMIC	470PF	10%	50V
C122	1-126-961-11	ELECT	2.2uF	20%	50V
C123	1-126-960-11	ELECT	1uF	20%	50V
C124	1-102-977-00	CERAMIC	200PF	5%	50V
C125	1-126-960-11	ELECT	1uF	20%	50V
C126	1-110-671-31	CERAMIC	47000PF		50V
C127	1-126-964-11	ELECT	10uF	20%	50V
C128	1-161-494-00	CERAMIC	0.022uF		25V
C129	1-109-889-11	ELECT	1uF	20%	50V
C130	1-161-054-00	CERAMIC	0.018uF	10%	25V
C131	1-161-054-00	CERAMIC	0.018uF	10%	25V
C132	1-161-051-00	CERAMIC	0.01uF	10%	50V
C133	1-161-051-00	CERAMIC	0.01uF	10%	50V
C134	1-130-472-00	MYLER	0.0012uF	5%	50V
C135	1-162-286-31	CERAMIC	220PF	10%	50V
C136	1-162-286-31	CERAMIC	220PF	10%	50V
C137	1-126-959-11	ELECT	0.47uF	20%	50V
C138	1-162-306-11	CERAMIC	0.01uF	20%	16V
C139	1-162-306-11	CERAMIC	0.01uF	20%	16V
C140	1-126-933-11	ELECT	100uF	20%	16V
C141	1-161-494-00	CERAMIC	0.022uF		25V
C142	1-126-933-11	ELECT	100uF	20%	16V
C143	1-126-959-11	ELECT	0.47uF	20%	50V
C144	1-161-494-00	CERAMIC	0.022uF		25V
C145	1-162-291-31	CERAMIC	560PF	10%	50V
C146	1-161-744-00	CERAMIC	0.01uF		250V
C148	1-161-494-00	CERAMIC	0.022uF		25V
C149	1-161-744-00	CERAMIC	0.01uF		250V

Ref. No.	Part No.	Description			Remarks
C150	1-164-159-11	CERAMIC	0.1uF		50V
C151	1-128-551-11	ELECT	22uF	20%	25V
C152	1-162-294-31	CERAMIC	0.001uF	10%	50V
C154	1-162-294-31	CERAMIC	0.001uF	10%	50V
C155	1-162-294-31	CERAMIC	0.001uF	10%	50V
C156	1-102-516-11	CERAMIC	27PF	5%	50V
C157	1-102-516-11	CERAMIC	27PF	5%	50V
C158	1-126-967-11	ELECT	47uF	20%	16V
C159	1-164-159-11	CERAMIC	0.1uF		50V
C160	1-126-963-11	ELECT	4.7uF	20%	50V
C161	1-126-963-11	ELECT	4.7uF	20%	50V
C162	1-161-494-00	CERAMIC	0.022uF		25V
C163	1-161-494-00	CERAMIC	0.022uF		25V
C164	1-126-962-11	ELECT	3.3uF	20%	50V
C166	1-161-494-00	CERAMIC	0.022uF		25V
C167	1-162-282-31	CERAMIC	100PF	10%	50V
C169	1-110-671-31	CERAMIC	47000PF		50V
C170	1-162-195-31	CERAMIC	4.7PF	10%	50V
C171	1-162-211-31	CERAMIC	33PF	5%	50V
C172	1-161-494-00	CERAMIC	0.022uF		25V
C173	1-161-494-00	CERAMIC	0.022uF		25V
C174	1-164-159-11	CERAMIC	0.1uF		50V
C175	1-130-485-00	MYLAR	0.015uF	5%	50V
C176	1-130-485-00	MYLAR	0.015uF	5%	50V
C177	1-161-494-00	CERAMIC	0.022uF		25V
C178	1-161-042-11	CERAMIC	0.0018uF	10%	50V
C179	1-110-671-31	CERAMIC	47000PF		50V
C181	1-164-159-11	CERAMIC	0.1uF		50V
C184	1-164-159-11	CERAMIC	0.1uF		50V
C185	1-162-294-31	CERAMIC	0.001uF	10%	50V
C188	1-162-294-31	CERAMIC	0.001uF	10%	50V
C189	1-162-294-31	CERAMIC	0.001uF	10%	50V
C190	1-162-294-31	CERAMIC	0.001uF	10%	50V
C301	1-164-159-11	CERAMIC	0.1uF		50V
C302	1-162-306-11	CERAMIC	0.01uF	20%	16V
C303	1-162-306-11	CERAMIC	0.01uF	20%	16V
C305	1-126-959-11	ELECT	0.47uF	20%	50V
C306	1-126-959-11	ELECT	0.47uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-959-11	ELECT	0.47uF	20%	50V
C309	1-162-282-31	CERAMIC	100PF	10%	50V
C310	1-162-282-31	CERAMIC	100PF	10%	50V
C311	1-126-959-11	ELECT	0.47uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-137-150-11	FILM	0.01uF	5%	100V
C314	1-137-150-11	FILM	0.01uF	5%	100V
C317	1-136-479-11	FILM	0.001uF	5%	100V
C318	1-136-479-11	FILM	0.001uF	5%	100V
C319	1-136-480-11	FILM	0.0015uF	5%	100V
C320	1-136-480-11	FILM	0.0015uF	5%	100V
C321	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C322	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C325	1-137-350-11	FILM	0.015uF	5%	100V
C326	1-137-350-11	FILM	0.015uF	5%	100V
C327	1-126-934-11	ELECT	220uF	20%	16V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
C328	1-126-934-11	ELECT	220uF	20%	16V
C329	1-162-282-31	CERAMIC	100PF	10%	50V
C330	1-162-282-31	CERAMIC	100PF	10%	50V
C331	1-126-960-11	ELECT	1uF	20%	50V
C332	1-126-960-11	ELECT	1uF	20%	50V
C333	1-126-933-11	ELECT	100uF	20%	16V
C334	1-126-960-11	ELECT	1uF	20%	50V
C335	1-126-960-11	ELECT	1uF	20%	50V
C336	1-126-962-11	ELECT	3.3uF	20%	50V
C337	1-126-962-11	ELECT	3.3uF	20%	50V
C339	1-126-959-11	ELECT	0.47uF	20%	50V
C340	1-126-959-11	ELECT	0.47uF	20%	50V
C341	1-126-960-11	ELECT	1uF	20%	50V
C342	1-126-960-11	ELECT	1uF	20%	50V
C343	1-126-963-11	ELECT	4.7uF	20%	50V
C344	1-126-963-11	ELECT	4.7uF	20%	50V
C345	1-137-353-11	FILM	0.047uF	5%	100V
C346	1-137-353-11	FILM	0.047uF	5%	100V
C347	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C348	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C349	1-162-294-31	CERAMIC	0.001uF	10%	50V
C350	1-162-294-31	CERAMIC	0.001uF	10%	50V
C351	1-137-354-11	FILM	0.1uF	5%	100V
C352	1-137-354-11	FILM	0.1uF	5%	100V
C353	1-126-962-11	ELECT	3.3uF	20%	50V
C354	1-126-962-11	ELECT	3.3uF	20%	50V
C355	1-126-933-11	ELECT	100uF	20%	16V
C356	1-126-933-11	ELECT	100uF	20%	16V
C360	1-162-290-31	CERAMIC	470PF	10%	50V
C361	1-162-290-31	CERAMIC	470PF	10%	50V
C368	1-109-889-11	ELECT	1uF	20%	50V
C371	1-161-494-00	CERAMIC	0.022uF		25V
C372	1-161-494-00	CERAMIC	0.022uF		25V
C374	1-137-350-11	FILM	0.015uF	5%	100V
C375	1-136-290-11	FILM	0.0062uF	5%	100V
C376	1-136-290-11	FILM	0.0062uF	5%	100V
C377	1-137-350-11	FILM	0.015uF	5%	100V
C378	1-126-959-11	ELECT	0.47uF	20%	50V
C379	1-126-959-11	ELECT	0.47uF	20%	50V
C391	1-162-292-31	CERAMIC	680PF	10%	50V
C392	1-162-292-31	CERAMIC	680PF	10%	50V
C393	1-162-292-31	CERAMIC	680PF	10%	50V
C394	1-162-294-31	CERAMIC	0.001uF	10%	50V
C395	1-164-159-11	CERAMIC	0.1uF		50V
C396	1-164-159-11	CERAMIC	0.1uF		50V
C397	1-164-159-11	CERAMIC	0.1uF		50V
C398	1-164-159-11	CERAMIC	0.1uF		50V
C401	1-161-494-00	CERAMIC	0.022uF		25V
C402	1-126-948-11	ELECT	100uF	20%	35V
C403	1-126-933-11	ELECT	100uF	20%	16V
C404	1-161-494-00	CERAMIC	0.022uF		25V
C405	1-126-933-11	ELECT	100uF	20%	16V
C406	1-126-960-11	ELECT	1uF	20%	50V
C407	1-126-960-11	ELECT	1uF	20%	50V
C408	1-162-294-31	CERAMIC	0.001uF	10%	50V
C409	1-162-294-31	CERAMIC	0.001uF	10%	50V
C410	1-126-933-11	ELECT	100uF	20%	16V
C411	1-126-933-11	ELECT	100uF	20%	16V
C413	1-126-964-11	ELECT	10uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C415	1-161-494-00	CERAMIC	0.022uF		25V
C416	1-161-494-00	CERAMIC	0.022uF		25V
C417	1-126-933-11	ELECT	100uF	20%	16V
C418	1-126-933-11	ELECT	100uF	20%	16V
C419	1-161-494-00	CERAMIC	0.022uF		25V
C420	1-161-494-00	CERAMIC	0.022uF		25V
C421	1-164-159-11	CERAMIC	0.1uF		50V
C431	1-126-964-11	ELECT	10uF	20%	50V
C432	1-126-961-11	ELECT	2.2uF	20%	50V
C435	1-126-961-11	ELECT	2.2uF	20%	50V
C436	1-126-961-11	ELECT	2.2uF	20%	50V
C439	1-126-961-11	ELECT	2.2uF	20%	50V
C440	1-126-961-11	ELECT	2.2uF	20%	50V
C442	1-161-494-00	CERAMIC	0.022uF		25V
C445	1-126-962-11	ELECT	3.3uF	20%	50V
C446	1-126-962-11	ELECT	3.3uF	20%	50V
C447	1-126-964-11	ELECT	10uF	20%	50V
C731	1-162-306-11	CERAMIC	0.01uF	20%	16V
C732	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< FILTER >			
CF101	1-567-107-00	FILTER, CERAMIC			
CF102	1-567-107-00	FILTER, CERAMIC			
CF103	1-527-996-11	FILTER, CERAMIC			
CF104	1-579-856-31	DISCRIMINATOR, CERAMIC			
CF105	1-577-091-11	OSCILLATOR, CERAMIC			
		< CONNECTOR >			
* CN601	1-770-335-11	PIN, CONNECTOR (PC BOARD) 20P			
		< TRIMMER >			
CT102	1-141-304-21	CAP, TRIMMER 10PF			
CT103	1-141-245-00	CAP, TRIMMER 30PF			
CT104	1-141-304-21	CAP, TRIMMER 10PF			
CT105	1-141-245-00	CAP, TRIMMER 30PF			
		< DIODE >			
D101	8-719-911-19	DIODE 1SS119			
D102	8-719-911-19	DIODE 1SS119			
D103	8-719-911-19	DIODE 1SS119			
D104	8-719-911-19	DIODE 1SS119			
D105	8-719-059-68	DIODE KV1340A			
D106	8-719-059-68	DIODE KV1340A			
D107	8-719-800-72	DIODE 1SV149-B			
D108	8-719-911-19	DIODE 1SS119			
D109	8-719-911-19	DIODE 1SS119			
D110	8-719-109-89	DIODE RD5.6ESB2			
D111	8-719-911-19	DIODE 1SS119			
D301	8-719-911-19	DIODE 1SS119			
D302	8-719-911-19	DIODE 1SS119			
D305	8-719-911-19	DIODE 1SS119			
D401	8-719-110-31	DIODE RD12ES-B2			
D402	8-719-921-54	DIODE MTZJ-6.2B			
		< FRONTEND >			
FE101	1-693-422-11	FRONT END			

MAIN

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC102	8-759-801-96	IC LA1186	
IC103	8-759-820-53	IC LA1145M	
IC301	8-759-473-59	IC LC75392	
IC302	8-759-244-66	IC TC74AC534P	
IC303	8-759-112-93	IC UPC4570HA-1	
IC401	8-759-356-16	IC NJM4556AD	
		< JACK >	
JK101	1-694-126-11	TERMINAL BOARD	
JK301	1-766-396-11	JACK, PIN 4P	
JK401	1-785-081-11	JACK (LARGE TYPE)	
		< COIL >	
L101	1-429-550-11	TRANSFORMER, FM ANT	
L104	1-416-741-11	COIL (LW ANT)	
L105	1-429-555-11	TRANSFORMER, MW OSC	
L106	1-412-507-11	INDUCTOR 47uH	
L107	1-412-507-11	INDUCTOR 47uH	
L108	1-412-503-11	INDUCTOR 22uH	
L109	1-412-503-11	INDUCTOR 22uH	
L110	1-416-742-11	COIL (LW.OSC)	
L111	1-408-611-31	INDUCTOR 47mH	
L112	1-408-611-31	INDUCTOR 47mH	
L113	1-412-503-11	INDUCTOR 22uH	
L114	1-412-503-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q101	8-729-015-41	TRANSISTOR 2SC1675-T1	
Q103	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q104	8-729-194-57	TRANSISTOR 2SC945-P	
Q105	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q106	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q107	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q108	8-729-041-83	TRANSISTOR 2SK544E	
Q112	8-729-194-57	TRANSISTOR 2SC945-P	
Q113	8-729-194-57	TRANSISTOR 2SC945-P	
Q114	8-729-902-80	TRANSISTOR DTA114YS	
Q116	8-729-194-57	TRANSISTOR 2SC945-P	
Q117	8-729-194-57	TRANSISTOR 2SC945-P	
Q301	8-729-194-57	TRANSISTOR 2SC945-P	
Q302	8-729-194-57	TRANSISTOR 2SC945-P	
Q303	8-729-194-57	TRANSISTOR 2SC945-P	
Q304	8-729-194-57	TRANSISTOR 2SC945-P	
Q307	8-729-224-62	TRANSISTOR 2SK246-GR	
Q308	8-729-194-57	TRANSISTOR 2SC945-P	
Q309	8-729-194-57	TRANSISTOR 2SC945-P	
Q310	8-729-422-57	TRANSISTOR UN4111	
Q319	8-729-194-57	TRANSISTOR 2SC945-P	
Q320	8-729-194-57	TRANSISTOR 2SC945-P	
Q321	8-729-194-57	TRANSISTOR 2SC945-P	
Q322	8-729-194-57	TRANSISTOR 2SC945-P	
Q401	8-729-232-32	TRANSISTOR 2SA965	
Q403	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q404	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q407	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q408	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q409	8-729-140-96	TRANSISTOR 2SD774-34	
Q410	8-729-422-57	TRANSISTOR UN4111	
Q415	8-729-993-43	TRANSISTOR 2SA934R	
Q416	8-729-194-57	TRANSISTOR 2SC945-P	
Q417	8-729-029-72	TRANSISTOR DTC114YS	
		< RESISTOR >	
R101	1-249-409-11	CARBON 220 5% 1/4W	F
R103	1-247-692-11	CARBON 22 5% 1/4W	F
R104	1-247-807-11	CARBON 100 5% 1/4W	
R105	1-249-411-11	CARBON 330 5% 1/4W	
R106	1-247-849-11	CARBON 5.6K 5% 1/4W	
R107	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R110	1-247-867-11	CARBON 33K 5% 1/4W	
R112	1-247-807-11	CARBON 100 5% 1/4W	
R113	1-247-879-11	CARBON 100K 5% 1/4W	
R114	1-247-879-11	CARBON 100K 5% 1/4W	
R115	1-249-417-11	CARBON 1K 5% 1/4W	F
R116	1-247-692-11	CARBON 22 5% 1/4W	F
R117	1-247-855-11	CARBON 10K 5% 1/4W	
R118	1-247-807-11	CARBON 100 5% 1/4W	
R119	1-249-413-11	CARBON 470 5% 1/4W	F
R120	1-247-843-11	CARBON 3.3K 5% 1/4W	
R121	1-247-843-11	CARBON 3.3K 5% 1/4W	
R123	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R124	1-247-843-11	CARBON 3.3K 5% 1/4W	
R126	1-249-417-11	CARBON 1K 5% 1/4W	F
R127	1-249-417-11	CARBON 1K 5% 1/4W	F
R128	1-247-883-00	CARBON 150K 5% 1/4W	
R129	1-247-883-00	CARBON 150K 5% 1/4W	
R130	1-249-405-11	CARBON 100 5% 1/4W	F
R131	1-247-713-11	CARBON 1K 5% 1/4W	F
R132	1-247-855-11	CARBON 10K 5% 1/4W	
R133	1-247-843-11	CARBON 3.3K 5% 1/4W	
R134	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R135	1-249-417-11	CARBON 1K 5% 1/4W	F
R136	1-247-847-11	CARBON 4.7K 5% 1/4W	
R137	1-247-725-11	CARBON 10K 5% 1/4W	F
R138	1-249-405-11	CARBON 100 5% 1/4W	F
R139	1-247-855-11	CARBON 10K 5% 1/4W	
R140	1-247-855-11	CARBON 10K 5% 1/4W	
R141	1-247-839-11	CARBON 2.2K 5% 1/4W	
R142	1-247-839-11	CARBON 2.2K 5% 1/4W	
R143	1-247-839-11	CARBON 2.2K 5% 1/4W	
R144	1-249-411-11	CARBON 330 5% 1/4W	
R147	1-247-843-11	CARBON 3.3K 5% 1/4W	
R151	1-247-843-11	CARBON 3.3K 5% 1/4W	
R152	1-247-903-00	CARBON 1M 5% 1/4W	
R155	1-249-409-11	CARBON 220 5% 1/4W	F
R156	1-247-863-11	CARBON 22K 5% 1/4W	
R157	1-247-863-11	CARBON 22K 5% 1/4W	
R158	1-247-863-11	CARBON 22K 5% 1/4W	
R159	1-247-863-11	CARBON 22K 5% 1/4W	
R160	1-247-879-11	CARBON 100K 5% 1/4W	
R161	1-247-871-11	CARBON 47K 5% 1/4W	
R162	1-247-855-11	CARBON 10K 5% 1/4W	
R163	1-247-855-11	CARBON 10K 5% 1/4W	
R164	1-247-863-11	CARBON 22K 5% 1/4W	
R165	1-247-855-11	CARBON 10K 5% 1/4W	
R167	1-249-417-11	CARBON 1K 5% 1/4W	F
R171	1-249-411-11	CARBON 330 5% 1/4W	
R301	1-249-434-11	CARBON 27K 5% 1/4W	

Ref. No.	Part No.	Description			Remarks
R302	1-249-434-11	CARBON	27K	5%	1/4W
R303	1-247-847-11	CARBON	4.7K	5%	1/4W
R304	1-247-847-11	CARBON	4.7K	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W F
R306	1-249-417-11	CARBON	1K	5%	1/4W F
R307	1-247-847-11	CARBON	4.7K	5%	1/4W
R308	1-247-847-11	CARBON	4.7K	5%	1/4W
R309	1-249-440-11	CARBON	82K	5%	1/4W
R310	1-249-440-11	CARBON	82K	5%	1/4W
R311	1-249-465-11	CARBON	47K	5%	1/4W
R312	1-249-465-11	CARBON	47K	5%	1/4W
R315	1-247-867-11	CARBON	33K	5%	1/4W
R316	1-247-867-11	CARBON	33K	5%	1/4W
R317	1-247-887-00	CARBON	220K	5%	1/4W
R318	1-247-887-00	CARBON	220K	5%	1/4W
R319	1-247-855-11	CARBON	10K	5%	1/4W
R320	1-247-855-11	CARBON	10K	5%	1/4W
R321	1-249-434-11	CARBON	27K	5%	1/4W
R322	1-249-434-11	CARBON	27K	5%	1/4W
R323	1-247-871-11	CARBON	47K	5%	1/4W
R324	1-247-871-11	CARBON	47K	5%	1/4W
R325	1-247-863-11	CARBON	22K	5%	1/4W
R326	1-247-863-11	CARBON	22K	5%	1/4W
R327	1-249-434-11	CARBON	27K	5%	1/4W
R328	1-249-434-11	CARBON	27K	5%	1/4W
R329	1-249-430-11	CARBON	12K	5%	1/4W
R330	1-249-430-11	CARBON	12K	5%	1/4W
R331	1-247-717-11	CARBON	2.2K	5%	1/4W F
R332	1-247-717-11	CARBON	2.2K	5%	1/4W F
R333	1-247-717-11	CARBON	2.2K	5%	1/4W F
R334	1-247-725-11	CARBON	10K	5%	1/4W F
R335	1-247-855-11	CARBON	10K	5%	1/4W
R336	1-247-847-11	CARBON	4.7K	5%	1/4W
R337	1-247-704-11	CARBON	220	5%	1/4W F
R338	1-247-708-11	CARBON	470	5%	1/4W F
R339	1-247-897-11	CARBON	560K	5%	1/4W
R340	1-247-897-11	CARBON	560K	5%	1/4W
R341	1-249-418-11	CARBON	1.2K	5%	1/4W F
R342	1-249-418-11	CARBON	1.2K	5%	1/4W F
R344	1-247-839-11	CARBON	2.2K	5%	1/4W
R345	1-247-839-11	CARBON	2.2K	5%	1/4W
R346	1-247-843-11	CARBON	3.3K	5%	1/4W
R347	1-247-843-11	CARBON	3.3K	5%	1/4W
R348	1-247-863-11	CARBON	22K	5%	1/4W
R349	1-247-863-11	CARBON	22K	5%	1/4W
R352	1-247-871-11	CARBON	47K	5%	1/4W
R353	1-247-871-11	CARBON	47K	5%	1/4W
R354	1-247-863-11	CARBON	22K	5%	1/4W
R355	1-247-863-11	CARBON	22K	5%	1/4W
R356	1-247-839-11	CARBON	2.2K	5%	1/4W
R357	1-247-839-11	CARBON	2.2K	5%	1/4W
R358	1-247-871-11	CARBON	47K	5%	1/4W
R359	1-247-871-11	CARBON	47K	5%	1/4W
R360	1-247-855-11	CARBON	10K	5%	1/4W
R361	1-247-855-11	CARBON	10K	5%	1/4W
R364	1-247-863-11	CARBON	22K	5%	1/4W
R365	1-247-863-11	CARBON	22K	5%	1/4W
R366	1-247-871-11	CARBON	47K	5%	1/4W
R367	1-247-879-11	CARBON	100K	5%	1/4W
R368	1-247-847-11	CARBON	4.7K	5%	1/4W
R369	1-247-847-11	CARBON	4.7K	5%	1/4W
R370	1-247-883-00	CARBON	150K	5%	1/4W
R371	1-247-883-00	CARBON	150K	5%	1/4W
R372	1-247-887-00	CARBON	220K	5%	1/4W
R373	1-247-887-00	CARBON	220K	5%	1/4W
R375	1-247-710-11	CARBON	560	5%	1/4W F
R378	1-247-867-11	CARBON	33K	5%	1/4W
R379	1-247-867-11	CARBON	33K	5%	1/4W
R380	1-249-427-11	CARBON	6.8K	5%	1/4W F
R381	1-249-427-11	CARBON	6.8K	5%	1/4W F
R383	1-259-634-11	CARBON	18	2%	1W
R384	1-249-469-11	CARBON	100K	5%	1/4W
R385	1-247-879-11	CARBON	100K	5%	1/4W
R386	1-249-469-11	CARBON	100K	5%	1/4W
R387	1-247-879-11	CARBON	100K	5%	1/4W
R388	1-249-469-11	CARBON	100K	5%	1/4W
R389	1-247-879-11	CARBON	100K	5%	1/4W
R390	1-249-469-11	CARBON	100K	5%	1/4W
R391	1-247-879-11	CARBON	100K	5%	1/4W
R394	1-247-710-11	CARBON	560	5%	1/4W F
R395	1-247-863-11	CARBON	22K	5%	1/4W
R396	1-247-863-11	CARBON	22K	5%	1/4W
R401	1-247-717-11	CARBON	2.2K	5%	1/4W F
R402	1-249-417-11	CARBON	1K	5%	1/4W F
R404	1-247-871-11	CARBON	47K	5%	1/4W
R405	1-247-871-11	CARBON	47K	5%	1/4W
R406	1-247-855-11	CARBON	10K	5%	1/4W
R407	1-247-855-11	CARBON	10K	5%	1/4W
R408	1-247-871-11	CARBON	47K	5%	1/4W
R409	1-247-871-11	CARBON	47K	5%	1/4W
R410	1-247-710-11	CARBON	560	5%	1/4W F
R411	1-247-710-11	CARBON	560	5%	1/4W F
R412	1-247-694-11	CARBON	33	5%	1/4W F
R413	1-247-694-11	CARBON	33	5%	1/4W F
R414	1-247-839-11	CARBON	2.2K	5%	1/4W
R415	1-247-839-11	CARBON	2.2K	5%	1/4W
R416	1-247-871-11	CARBON	47K	5%	1/4W
R417	1-247-855-11	CARBON	10K	5%	1/4W
R420	1-249-413-11	CARBON	470	5%	1/4W F
R422	1-249-417-11	CARBON	1K	5%	1/4W F
R430	1-249-417-11	CARBON	1K	5%	1/4W F
R431	1-247-883-00	CARBON	150K	5%	1/4W
R432	1-247-871-11	CARBON	47K	5%	1/4W
R433	1-247-871-11	CARBON	47K	5%	1/4W
R434	1-247-839-11	CARBON	2.2K	5%	1/4W
R435	1-247-839-11	CARBON	2.2K	5%	1/4W
R436	1-247-855-11	CARBON	10K	5%	1/4W
R437	1-249-427-11	CARBON	6.8K	5%	1/4W F
R438	1-249-427-11	CARBON	6.8K	5%	1/4W F
R450	1-247-855-11	CARBON	10K	5%	1/4W
R451	1-247-863-11	CARBON	22K	5%	1/4W
R452	1-249-417-11	CARBON	1K	5%	1/4W F
R453	1-247-839-11	CARBON	2.2K	5%	1/4W
R454	1-247-839-11	CARBON	2.2K	5%	1/4W
R455	1-247-855-11	CARBON	10K	5%	1/4W
R456	1-247-855-11	CARBON	10K	5%	1/4W
R457	1-247-855-11	CARBON	10K	5%	1/4W
R467	1-249-417-11	CARBON	1K	5%	1/4W F

MAIN | MOTOR (6P)(S) | PANEL

Ref. No.	Part No.	Description			Remarks
		< ADJ >			
SFR101	1-228-995-00	RES, ADJ, METAL 22K			
		< TRANSFORMER >			
T102	1-429-554-11	TRANSFORMER, AM IFT			
T103	1-429-553-11	TRANSFORMER, FM IFT			
		< VIBRATOR >			
X101	1-579-585-11	VIBRATOR, CRYSTAL 7.2MHz			
**********					
*	1-639-678-12	MOTOR (6P)(S)BOARD			
		**********			
		< CONNECTOR >			
* CN1	1-564-722-11	PIN,CONNECTOR (SMALL TYPE)6P			
		< MOTOR >			
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)			
M102	X-2625-769-1	MOTOR ASSY (SLED)			
		< SWITCH >			
S1	1-572-085-11	SWITCH,LEAF(LIMIT)			
**********					
*	A-4405-484-A	PANEL BOARD, COMPLETE			
		**********			
*	4-210-620-01	HOLDER, DISPLAY			
		< CAPACITOR >			
C601	1-126-916-11	ELECT	1000uF	20% 6.3V	
C602	1-161-494-00	CERAMIC	0.022uF	25V	
C603	1-164-159-11	CERAMIC	0.1uF	50V	
C604	1-126-933-11	ELECT	100uF	20% 16V	
C605	1-126-967-11	ELECT	47uF	20% 16V	
C606	1-164-159-11	CERAMIC	0.1uF	50V	
C607	1-126-961-11	ELECT	2.2uF	20% 50V	
C608	1-126-960-11	ELECT	1uF	20% 50V	
C609	1-164-159-11	CERAMIC	0.1uF	50V	
C610	1-126-964-11	ELECT	10uF	20% 50V	
C611	1-161-494-00	CERAMIC	0.022uF	25V	
C612	1-102-510-11	CERAMIC	12PF	5% 50V	
C613	1-102-510-11	CERAMIC	12PF	5% 50V	
C614	1-126-960-11	ELECT	1uF	20% 50V	
C615	1-126-019-11	ELECT	10uF	20% 25V	
C616	1-110-671-31	FILM	0.047uF		
C617	1-162-302-11	CERAMIC	0.0022uF	20% 16V	
C618	1-126-964-11	ELECT	10uF	20% 50V	
C619	1-161-494-00	CERAMIC	0.022uF	25V	
C620	1-161-494-00	CERAMIC	0.022uF	25V	
C621	1-126-964-11	ELECT	10uF	20% 50V	
C622	1-126-964-11	ELECT	10uF	20% 50V	
C623	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C633	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C634	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C635	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C636	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C637	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C638	1-162-600-11	CERAMIC	0.0047uF	30% 16V	

Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >	
CN601	1-770-331-11	CONNECTOR, D-SUB (11W1)	
CN602	1-568-861-11	SOCKET, CONNECTOR 18P	
CN602	8-719-031-85	DIODE 1N4002L	
		< DIODE >	
D601	8-719-911-19	DIODE 1SS119	
D602	8-719-031-85	DIODE 1N4002L	
D603	8-719-911-19	DIODE 1SS119	
D604	8-719-911-19	DIODE 1SS119	
D605	8-719-911-19	DIODE 1SS119	
D607	8-719-987-63	DIODE 1N4148	
D608	8-719-911-19	DIODE 1SS119	
D609	8-719-987-63	DIODE 1N4148	
D610	8-719-911-19	DIODE 1SS119	
D611	8-719-911-19	DIODE 1SS119	
D612	8-719-991-33	DIODE 1SS133	
D613	8-719-911-19	DIODE 1SS119	
D614	8-719-991-33	DIODE 1SS133	
D615	8-719-991-33	DIODE 1SS133	
D616	8-719-911-19	DIODE 1SS119	
D617	8-719-991-33	DIODE 1SS133	
D618	8-719-991-33	DIODE 1SS133	
D619	8-719-991-33	DIODE 1SS133	
		< FLUORESCENT INDICATOR >	
FLD601	1-517-761-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-759-540-23	IC uPD78020SGF-043-3BA	
IC602	8-759-275-23	IC BU2092	
IC603	8-759-473-61	IC BU2114	
		< COIL >	
L601	1-408-096-00	INDUCTOR 470uH	
L602	1-408-611-31	INDUCTOR 47mH	
L603	1-408-611-31	INDUCTOR 47mH	
		< LED >	
LED605	8-719-044-69	DIODE SEL1910DTP3	
LED606	8-719-044-69	DIODE SEL1910DTP3	
LED607	8-719-921-01	DIODE EBR5534S	
LED608	8-719-312-70	DIODE SEL1410G	
LED609	8-719-312-70	DIODE SEL1410G	
LED610	8-719-312-70	DIODE SEL1410G	
LED611	8-719-312-70	DIODE SEL1410G	
		< TRANSISTOR >	
Q601	8-729-194-57	TRANSISTOR 2SC945-P	
Q602	8-729-194-57	TRANSISTOR 2SC945-P	
Q603	8-729-194-57	TRANSISTOR 2SC945-P	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q605	8-729-194-57	TRANSISTOR 2SC945-P	
Q606	8-729-900-63	TRANSISTOR DTA124ES	
Q607	8-729-900-63	TRANSISTOR DTA124ES	
Q608	8-729-900-63	TRANSISTOR DTA124ES	
Q609	8-729-900-63	TRANSISTOR DTA124ES	
Q610	8-729-900-63	TRANSISTOR DTA124ES	

Ref. No.	Part No.	Description			Remarks
Q611	8-729-900-63	TRANSISTOR DTA124ES			
Q612	8-729-900-63	TRANSISTOR DTA124ES			
Q613	8-729-900-63	TRANSISTOR DTA124ES			
		< RESISTOR >			
R601	1-247-871-11	CARBON	47K	5%	1/4W
R602	1-249-417-11	CARBON	1K	5%	1/4W F
R603	1-247-871-11	CARBON	47K	5%	1/4W
R604	1-249-417-11	CARBON	1K	5%	1/4W F
R605	1-247-871-11	CARBON	47K	5%	1/4W
R606	1-247-839-11	CARBON	2.2K	5%	1/4W
R607	1-247-839-11	CARBON	2.2K	5%	1/4W
R608	1-247-839-11	CARBON	2.2K	5%	1/4W
R609	1-247-855-11	CARBON	10K	5%	1/4W
R610	1-247-713-11	CARBON	1K	5%	1/4W F
R611	1-249-431-11	CARBON	15K	5%	1/4W
R612	1-247-871-11	CARBON	47K	5%	1/4W
R613	1-249-417-11	CARBON	1K	5%	1/4W F
R614	1-249-417-11	CARBON	1K	5%	1/4W F
R615	1-247-713-11	CARBON	1K	5%	1/4W F
R616	1-247-713-11	CARBON	1K	5%	1/4W F
R617	1-247-713-11	CARBON	1K	5%	1/4W F
R618	1-247-713-11	CARBON	1K	5%	1/4W F
R619	1-247-855-11	CARBON	10K	5%	1/4W
R620	1-247-855-11	CARBON	10K	5%	1/4W
R621	1-247-725-11	CARBON	10K	5%	1/4W F
R622	1-247-855-11	CARBON	10K	5%	1/4W
R623	1-247-855-11	CARBON	10K	5%	1/4W
R624	1-247-855-11	CARBON	10K	5%	1/4W
R625	1-247-847-11	CARBON	4.7K	5%	1/4W
R626	1-247-847-11	CARBON	4.7K	5%	1/4W
R627	1-247-847-11	CARBON	4.7K	5%	1/4W
R628	1-247-847-11	CARBON	4.7K	5%	1/4W
R629	1-247-847-11	CARBON	4.7K	5%	1/4W
R630	1-247-847-11	CARBON	4.7K	5%	1/4W
R631	1-247-847-11	CARBON	4.7K	5%	1/4W
R632	1-247-847-11	CARBON	4.7K	5%	1/4W
R633	1-247-721-11	CARBON	4.7K	5%	1/4W F
R634	1-247-721-11	CARBON	4.7K	5%	1/4W F
R635	1-247-721-11	CARBON	4.7K	5%	1/4W F
R636	1-247-871-11	CARBON	47K	5%	1/4W
R637	1-247-839-11	CARBON	2.2K	5%	1/4W
R638	1-249-409-11	CARBON	220	5%	1/4W F
R639	1-247-702-11	CARBON	150	5%	1/4W F
R640	1-247-702-11	CARBON	150	5%	1/4W F
R641	1-247-702-11	CARBON	150	5%	1/4W F
R642	1-247-702-11	CARBON	150	5%	1/4W F
R643	1-247-702-11	CARBON	150	5%	1/4W F
R644	1-247-702-11	CARBON	150	5%	1/4W F
R645	1-246-451-15	CARBON	120	5%	1/4W
R646	1-246-451-15	CARBON	120	5%	1/4W
R647	1-249-407-11	CARBON	150	5%	1/4W F
R648	1-249-407-11	CARBON	150	5%	1/4W F
R649	1-249-407-11	CARBON	150	5%	1/4W F
R650	1-249-407-11	CARBON	150	5%	1/4W F
R651	1-249-407-11	CARBON	150	5%	1/4W F
R652	1-249-407-11	CARBON	150	5%	1/4W F
R653	1-247-847-11	CARBON	4.7K	5%	1/4W
R655	1-247-855-11	CARBON	10K	5%	1/4W
R661	1-247-714-11	CARBON	1.2K	5%	1/4W F
R662	1-249-420-11	CARBON	1.8K	5%	1/4W F
R663	1-247-718-11	CARBON	2.7K	5%	1/4W F
R664	1-247-720-11	CARBON	3.9K	5%	1/4W F
R665	1-249-427-11	CARBON	6.8K	5%	1/4W F
R666	1-249-431-11	CARBON	15K	5%	1/4W
R667	1-249-436-11	CARBON	39K	5%	1/4W
R668	1-249-418-11	CARBON	1.2K	5%	1/4W F
R669	1-249-420-11	CARBON	1.8K	5%	1/4W F
R670	1-247-718-11	CARBON	2.7K	5%	1/4W F
R671	1-249-418-11	CARBON	1.2K	5%	1/4W F
R672	1-249-420-11	CARBON	1.8K	5%	1/4W F
R673	1-249-418-11	CARBON	1.2K	5%	1/4W F
R674	1-249-420-11	CARBON	1.8K	5%	1/4W F
R675	1-247-718-11	CARBON	2.7K	5%	1/4W F
R676	1-249-424-11	CARBON	3.9K	5%	1/4W F
R677	1-249-427-11	CARBON	6.8K	5%	1/4W F
R678	1-249-431-11	CARBON	15K	5%	1/4W
R679	1-249-436-11	CARBON	39K	5%	1/4W
R690	1-247-855-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S601	1-572-647-11	SWITCH, KEY BOARD (TUNER/BAND)			
S602	1-572-647-11	SWITCH, KEY BOARD (CD)			
S603	1-572-647-11	SWITCH, KEY BOARD (TAPE B)			
S604	1-572-647-11	SWITCH, KEY BOARD (TAPE B)			
S605	1-572-647-11	SWITCH, KEY BOARD (TAPE A)			
S606	1-572-647-11	SWITCH, KEY BOARD (TAPE A)			
S607	1-572-647-11	SWITCH, KEY BOARD (FUNCTION)			
S608	1-572-647-11	SWITCH, KEY BOARD (EDIT/DIRECTION)			
S609	1-572-647-11	SWITCH, KEY BOARD (REPEAT/MEMORY)			
S610	1-572-647-11	SWITCH, KEY BOARD (STEREO/MONO)			
S611	1-572-647-11	SWITCH, KEY BOARD (STOP)			
S612	1-572-647-11	SWITCH, KEY BOARD (POWER)			
S613	1-572-647-11	SWITCH, KEY BOARD (CLOCK/TIMER SET)			
S614	1-572-647-11	SWITCH, KEY BOARD (TIMER SELECT)			
S615	1-572-647-11	SWITCH, KEY BOARD (ENTER/NEXT)			
S616	1-572-647-11	SWITCH, KEY BOARD (FILE SELECT)			
S617	1-572-647-11	SWITCH, KEY BOARD (DBFB)			
S618	1-572-647-11	SWITCH, KEY BOARD (DISPLAY/MONO)			
S619	1-572-647-11	SWITCH, KEY BOARD (SURROUND)			
S620	1-572-647-11	SWITCH, KEY BOARD (REC)			
S621	1-572-647-11	SWITCH, KEY BOARD (PAUSE)			
S622	1-572-647-11	SWITCH, KEY BOARD (CD SYNC)			
S623	1-572-647-11	SWITCH, KEY BOARD (PLAY MODE)			
		< VIBRATOR >			
X601	1-760-096-11	VIBRATOR, CRYSTAL 4.194304 MHz			
**********					
*	1-670-442-11	SENSOR BOARD			
		**********			
		< SENSOR >			
RM601	8-749-013-84	IC SPS-447-1			
**********					
*	1-670-797-11	SW (A) BOARD			
		**********			
		< SWITCH >			
S04	1-771-169-11	SWITCH			
**********					

SW (B) **SW (C)** **SW (D)** **VOLUME**

Ref. No.	Part No.	Description	Remarks
*	1-670-798-11	SW (B) BOARD **********	
		< SWITCH >	
S03	1-771-169-11	SWITCH	
**********			
*	1-670-799-11	SW (C) BOARD **********	
		< SWITCH >	
S02	1-571-300-31	SWITCH, ROTARY	
**********			
*	1-670-800-11	SW (D) BOARD **********	
		< SWITCH >	
S01	1-571-300-31	SWITCH, ROTARY	
**********			
*	1-670-441-11	VOLUME BOARD **********	
		< RESISTOR >	
R685	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R686	1-249-427-11	CARBON 6.8K 5% 1/4W F	
		< SWITCH >	
S629	1-762-875-11	SWITCH, KEYBOARD (TUNING/FF)	
S630	1-762-875-11	SWITCH, KEYBOARD (TUNING/REW)	
		< VARIABLE RESISTOR >	
VR601	1-475-807-11	ENCODER, ROTARY (VOLUME)	
VR602	1-475-841-11	ENCODER (MULTI JOG)	
**********			
		MISCELLANEOUS **********	
⚠9	1-556-035-00	CORD, POWER (UK)	
⚠9	1-765-558-11	CORD, POWER (EXCEPT UK)	
87	1-773-077-11	WIRE (FLAT TYPE) (18 CORE)	
151	1-759-633-11	DECK, MECHANICAL	
164	9-880-896-01	MOTOR ASSY	
251	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)	
⚠308	8-848-379-31	OPTICAL PICK-UP KSS-213B/S-N	
310	1-783-740-11	WIRE (FLAT TYPE) (16 CORE)	
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)	
M102	X-2625-769-1	MOTOR ASSY (SLED)	
M103	X-4948-765-1	MOTOR ASSY (TURN TABLE)	
M104	X-4948-766-1	MOTOR ASSY (A) (TRAY)	
⚠PT302	1-431-951-11	TRANSFORMER, POWER	
**********			

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS **********	
	1-475-827-11	REMOTE COMMANDER (RM-SG7)	
	1-475-828-11	REMOTE COMMANDER (RM-SG7B)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM) (R500)	
	1-501-807-11	ANTENNA (FM) (RX55)	
	3-862-439-12	MANUAL, INSTRUCTION (ENGLISH)	
	3-862-439-41	MANUAL, INSTRUCTION (AEP) (FRENCH/SPANISH/PORTUGUESE)	
	3-862-439-51	MANUAL, INSTRUCTION (AEP, G)(GERMAN)	
	3-862-439-61	MANUAL, INSTRUCTION (AEP) (DUTCH/ITALIAN)	
	3-862-439-71	MANUAL, INSTRUCTION (AED) (DANISH/FINNISH/SWEDISH)	
	3-862-439-81	MANUAL, INSTRUCTION (AEP) (POLISH/RUSSIAN)	
	3-862-440-11	MANUAL, INSTRUCTION (AEP)(HUNGARIAN)	
	3-862-440-21	MANUAL, INSTRUCTION (AEP)(GREEK)	
	3-862-440-31	MANUAL, INSTRUCTION (AEP)(CZECH)	
	3-862-440-41	MANUAL, INSTRUCTION (AEP)(TURKISH)	
	4-982-031-01	COVER,BATTERY (RM-SG7/SG7B)	
**********			
		********** HARDWARE LIST **********	
#2	7-682-546-04	SCREW +B 3X5	
#3	7-682-547-04	SCREW +B 3X6	
#4	7-682-548-04	SCREW +B 3X8	
#5	7-685-131-19	SCREW +P 2.6X4 TYPE2 SLIT	
#6	7-685-139-29	SCREW, TAPPING, (M2.6X20)	
#7	7-685-134-19	SCREW +PTPWH 2.6X8 (TYPE2)	
#8	7-685-138-19	SCREW +BTP 2.6X16 TYPE2 N-S	
#9	7-624-118-01	RING, RETAINING E-2.5	
#10	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	
#11	7-682-549-04	SCREW +B 3X10	
#12	7-682-550-04	SCREW +B 3X12	
#13	7-682-903-11	SCREW +PWH 3X6	
#14	7-682-904-11	SCREW +PWH 4X8	
#15	7-685-103-19	SCREW +P 2X5 TYPE2 SLIT	
#16	7-685-106-19	SCREW +P 2X10 TYPE2 SLIT	
#17	7-685-245-19	SCREW +KTP 3X6 TYPE2 NON-SLIT	
#18	7-621-255-15	SCREW +P 2X3	
#19	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S	
#20	7-685-548-19	SCREW +BTP 3X12 TYPE2 N-S	
#21	7-685-903-21	SCREW +PTPWH 3X8 (TYPE2)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

• Abbreviation
G : German model.
AED : North European model.

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(Shibaura)

HCD-R500/RX55

SONY

AEP Model
UK Model

SERVICE MANUAL

CORRECTION-1

Correct your service manual as shown below.

Subject : Correction of electrical parts.

(ECN-TA803970)
(ECN-TA803983)

• **PARTS LIST**

Page	INCORRECT						CORRECT				
	Ref. No.	Part No.	Description			Remarks	Part No.	Description			Remarks
74	C02	1-126-963-11	ELECT	4.7uF	20%	50V	————	————			
	C04B	————	————				1-126-925-11	ELECT	470uF	20%	10V
	C07A	1-162-199-31	CERAMIC	10PF	5%	50V	1-162-201-31	CERAMIC	12PF	5%	50V
	C08	1-161-494-00	CERAMIC	0.022uF		25V	————	————			
	C23A	————	————				1-162-294-31	CERAMIC	0.001uF	10%	50V
	C26	1-161-494-00	CERAMIC	0.022uF		25V	————	————			
	C27	1-162-306-11	CERAMIC	0.01uF	20%	16V	1-136-154-00	FILM	0.012uF	5%	50V
	C28	1-164-159-11	CERAMIC	0.1uF		50V	1-162-306-11	CERAMIC	0.01uF	20%	16V
	C29A	————	————				1-126-927-11	ELECT	2200uF	20%	10V
75	C30B	————	————				1-162-294-31	CERAMIC	0.001uF	10%	50V
	C38	1-102-958-00	CERAMIC	20PF	5%	50V	1-102-942-00	CERAMIC	5PF	0.5PF	50V
	C39	1-102-958-00	CERAMIC	20PF	5%	50V	1-102-942-00	CERAMIC	5PF	0.5PF	50V
	C46	1-126-933-11	ELECT	100uF	20%	10V	1-126-934-11	ELECT	220uF	20%	10V
	C51	1-162-288-31	CERAMIC	330PF	10%	50V	1-162-289-31	CERAMIC	390PF	10%	50V
	C52	1-162-288-31	CERAMIC	330PF	10%	50V	1-162-289-31	CERAMIC	390PF	10%	50V
	C53	1-162-284-31	CERAMIC	150PF	10%	50V	1-162-288-31	CERAMIC	330PF	10%	50V
	C54	1-162-284-31	CERAMIC	150PF	10%	50V	1-162-288-31	CERAMIC	330PF	10%	50V
	C55	1-162-284-31	CERAMIC	150PF	10%	50V	1-162-288-31	CERAMIC	330PF	10%	50V
	C56	1-162-284-31	CERAMIC	150PF	10%	50V	1-162-288-31	CERAMIC	330PF	10%	50V
	C84	1-162-282-31	CERAMIC	100PF	10%	50V	————	————			
	C85	1-162-292-31	CERAMIC	680PF	10%	50V	1-162-294-31	CERAMIC	0.001uF	10%	50V
	C86	1-162-282-31	CERAMIC	100PF	10%	50V	1-162-294-31	CERAMIC	0.001uF	10%	50V
	C87	1-162-282-31	CERAMIC	100PF	10%	50V	1-162-294-31	CERAMIC	0.001uF	10%	50V
	C88	1-162-282-31	CERAMIC	100PF	10%	50V	1-162-294-31	CERAMIC	0.001uF	10%	50V
	C90	1-161-494-00	CERAMIC	0.022uF		25V	1-164-159-11	CERAMIC	0.1uF		50V
	D01	8-719-911-19	DIODE	ISS119-25			8-719-991-33	DIODE	ISS133T		
	D04	8-719-921-41	DIODE	ISS113T			8-719-921-41	DIODE	MTZJ-5.1		
	D04A	8-719-991-33	DIODE	ISS176			8-719-991-33	DIODE	ISS133T		
	IC02	8-759-388-27	IC	TC9173P			8-759-234-75	IC	TC74HC4094AP		
	IC03	8-759-429-31	IC	BA5941FP			8-759-579-80	IC	BA5936S		
	R03	1-249-397-11	CARBON	22	5%	1/4W	1-249-393-11	CARBON	10	5%	1/4W
	R14	1-247-879-11	CARBON	100K	5%	1/4W	1-249-438-11	CARBON	56K	5%	1/4W
	R15	1-247-881-00	CARBON	120K	5%	1/4W	1-249-440-11	CARBON	82K	5%	1/4W
	R26	1-247-855-11	CARBON	10K	5%	1/4W	1-249-431-11	CARBON	15K	5%	1/4W
	R27	1-249-430-11	CARBON	12K	5%	1/4W	1-249-385-11	CARBON	2.2	5%	1/4W
	R28	1-247-855-11	CARBON	10K	5%	1/4W	1-274-871-11	CARBON	47K	5%	1/4W
	R36	1-247-847-11	CARBON	4.7K	5%	1/4W	1-249-411-11	CARBON	330	5%	1/4W
	R50	1-247-847-11	CARBON	4.7K	5%	1/4W	1-247-867-11	CARBON	33K	5%	1/4W
	R53	1-249-411-11	CARBON	330	5%	1/4W	1-249-432-11	CARBON	18K	5%	1/4W
76	R58	1-249-442-11	CARBON	510	5%	1/4W	1-249-417-11	CARBON	1K	5%	1/4W
	R65	1-247-864-11	CARBON	24K	5%	1/4W	1-247-867-11	CARBON	33K	5%	1/4W
	R66	1-247-864-11	CARBON	24K	5%	1/4W	1-247-867-11	CARBON	33K	5%	1/4W
	R67	1-247-864-11	CARBON	24K	5%	1/4W	1-247-867-11	CARBON	33K	5%	1/4W
	R68	1-247-864-11	CARBON	24K	5%	1/4W	1-247-867-11	CARBON	33K	5%	1/4W
	R79	1-249-405-11	CARBON	100	5%	1/4W	1-249-409-11	CARBON	220	5%	1/4W
	R89	1-247-839-11	CARBON	2.2K	5%	1/4W	1-249-432-11	CARBON	18K	5%	1/4W
	R90	1-247-839-11	CARBON	2.2K	5%	1/4W	1-247-855-11	CARBON	10K	5%	1/4W
	R91	1-247-839-11	CARBON	2.2K	5%	1/4W	1-249-432-11	CARBON	18K	5%	1/4W
	R92	1-247-839-11	CARBON	2.2K	5%	1/4W	1-247-855-11	CARBON	10K	5%	1/4W
	R93	1-249-420-11	CARBON	1.8K	5%	1/4W	1-247-867-11	CARBON	33K	5%	1/4W
	R94	1-249-420-11	CARBON	1.8K	5%	1/4W	1-247-863-11	CARBON	22K	5%	1/4W
82	*	————	————				1-670-801-11	MOTOR BOARD			
								**********			
								<CAPACITOR>			
	C01	————	————				1-126-963-11	ELECT	4.7uF	20%	50V
	C82	————	————				1-164-159-11	CERAMIC	0.1uF		50V
								<CONNECTOR>			
	* CN06	————	————				1-568-824-11	SOCKET, CONNECTOR 5P			

9-922-835-91

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Home A&V Products Company

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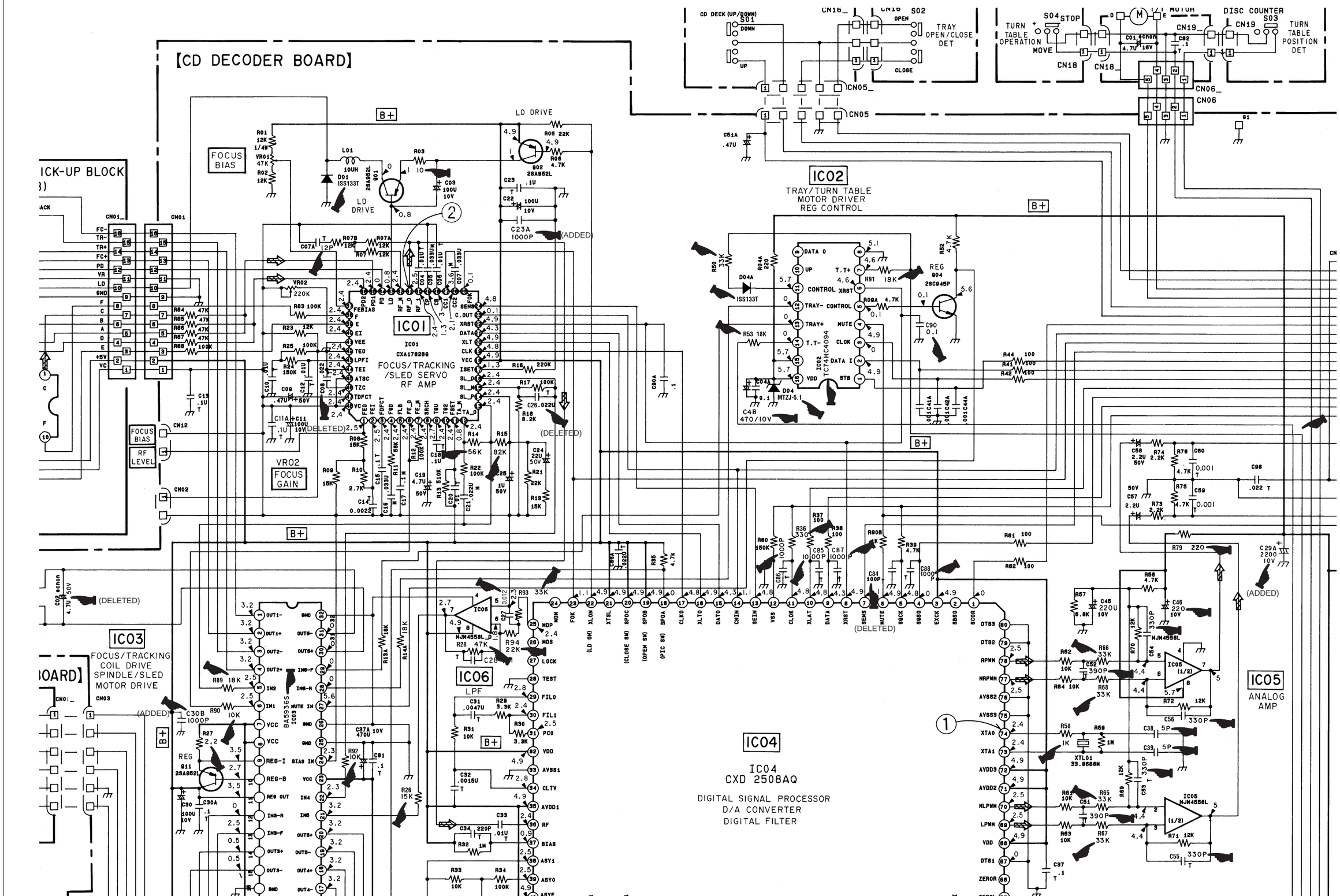
: Indicates corrected portion